


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 922-30A1CS							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES							
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES							
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515							
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU463			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		985 FNL 512 FEL		NENE		30		9.0 S		22.0 E		S	
Top of Uppermost Producing Zone		406 FNL 457 FEL		NENE		30		9.0 S		22.0 E		S	
At Total Depth		406 FNL 457 FEL		NENE		30		9.0 S		22.0 E		S	
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 406			23. NUMBER OF ACRES IN DRILLING UNIT 551							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 584			26. PROPOSED DEPTH MD: 9604 TVD: 9542							
27. ELEVATION - GROUND LEVEL 4925			28. BOND NUMBER WYB000291			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496							
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight		
SURF	11	8.625	0 - 2590	28.0	J-55 LT&C	0.2	Type V		180	1.15	15.8		
							Class G		270	1.15	15.8		
PROD	7.875	4.5	0 - 9604	11.6	I-80 LT&C	12.5	Premium Lite High Strength		320	3.38	11.0		
							50/50 Poz		1270	1.31	14.3		
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Laura Abrams				TITLE Regulatory Analyst II				PHONE 720 929-6356					
SIGNATURE				DATE 06/14/2011				EMAIL Laura.Abrams@anadarko.com					
API NUMBER ASSIGNED 43047516680000				APPROVAL <div style="text-align: center;">  Permit Manager </div>									

RECEIVED: August 17, 2011

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-30A1CS**

Surface:	985 FNL / 512 FEL	NENE
BHL:	406 FNL / 457 FEL	NENE

Section 30 T9S R22E

Unitah County, Utah
Mineral Lease: UTU 0463**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1443	
Birds Nest	1765	Water
Mahogany	2142	Water
Wasatch	4724	Gas
Mesaverde	7332	Gas
MVU2	8301	Gas
MVL1	8689	Gas
TVD	9542	
TD	9604	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9542' TVD, approximately equals
6,298 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,994 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

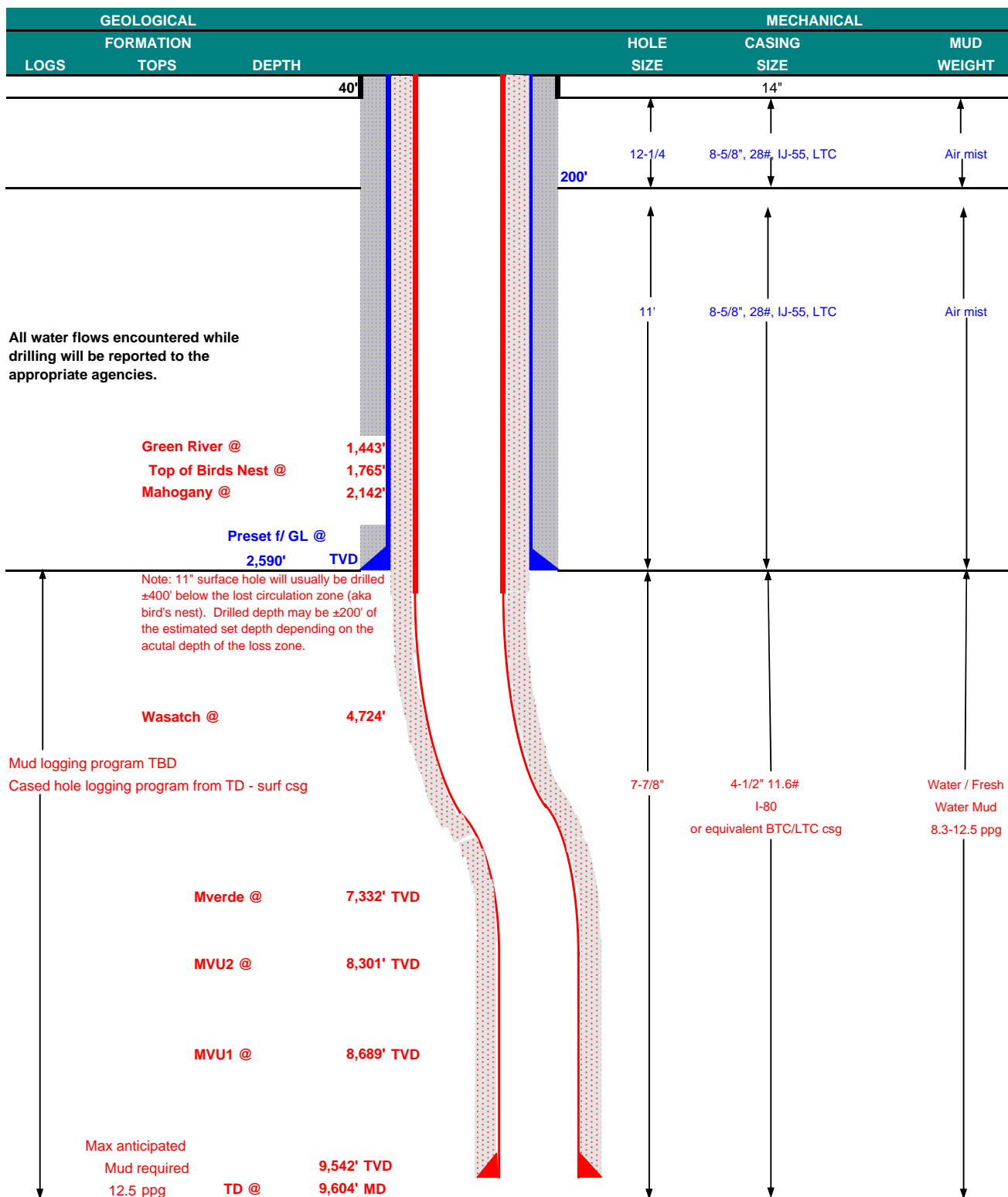
10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	June 13, 2011		
WELL NAME	NBU 922-30A1CS					TD	9,542'	TVD	9,604' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		4925'
SURFACE LOCATION	NENE	985 FNL	512 FEL	Sec 30	T 9S	R 22E			
	Latitude: 40.011571		Longitude: -109.475120		NAD 83				
BTM HOLE LOCATION	NENE	406 FNL	457 FEL	Sec 30	T 9S	R 22E			
	Latitude: 40.013158		Longitude: -109.474926		NAD 83				
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						LTC		BTC	
						BURST	COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,590	28.00	IJ-55	LTC	2.09	1.55	5.48	N/A
						7,780	6,350	279,000	367,000
PRODUCTION	4-1/2"	0 to 9,604	11.60	I-80	LTC/BTC	1.11	1.02	3.10	4.07

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,090'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,224'	Premium Lite II +0.25 pps	320	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,380'	50/50 Poz/G + 10% salt + 2% gel	1,270	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

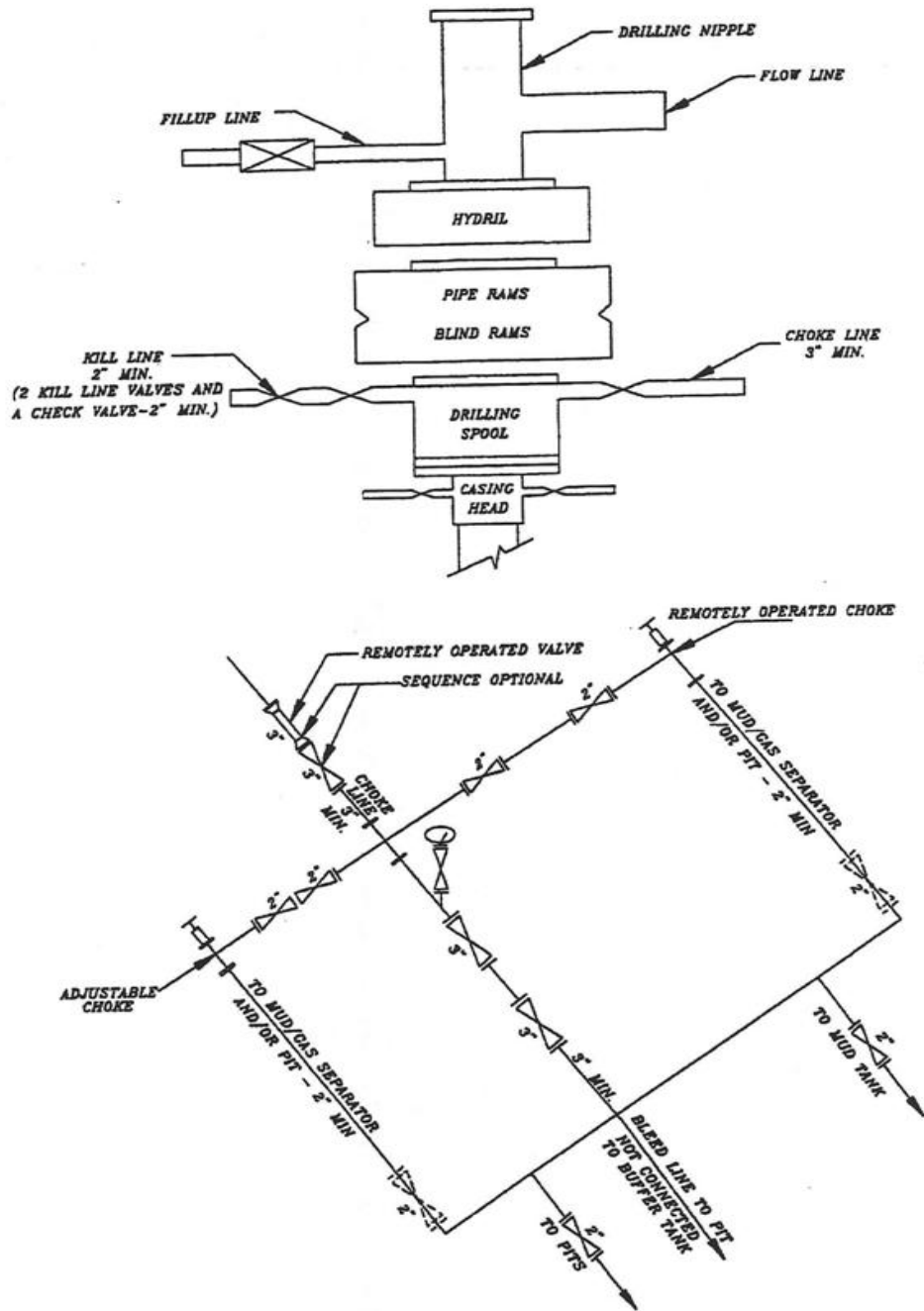
Nick Spence / Danny Showers

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A NBU 922-30A1CS

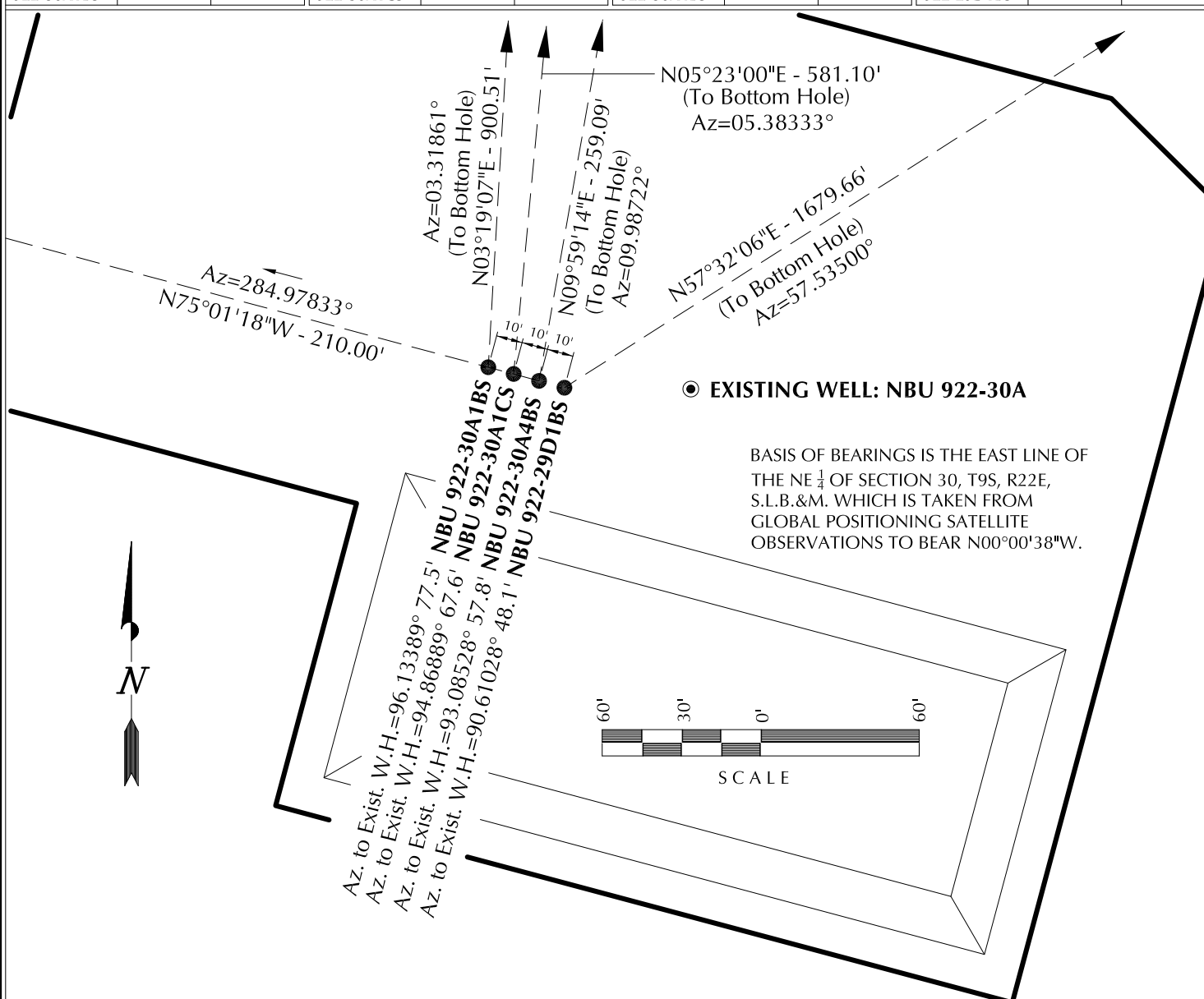




WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-30A1BS	40°00'41.680"	109°28'30.556"	40°00'41.806"	109°28'28.088"	982' FNL	40°00'50.562"	109°28'29.888"	40°00'50.688"	109°28'27.420"	83' FNL
NBU 922-30A1CS	40.011578°	109.475154°	40.011613°	109.474469°	521' FEL	40.014045°	109.474969°	40.014080°	109.474283°	469' FEL
NBU 922-30A1CS	40°00'41.655"	109°28'30.432"	40°00'41.781"	109°28'27.964"	985' FNL	40°00'47.371"	109°28'29.732"	40°00'47.497"	109°28'27.265"	406' FNL
NBU 922-30A1CS	40.011571°	109.475120°	40.011606°	109.474434°	512' FEL	40.013158°	109.474926°	40.013194°	109.474240°	457' FEL
NBU 922-30A4BS	40°00'41.629"	109°28'30.308"	40°00'41.755"	109°28'27.840"	987' FNL	40°00'44.150"	109°28'29.731"	40°00'44.276"	109°28'27.263"	732' FNL
NBU 922-30A4BS	40.011564°	109.475086°	40.011599°	109.474400°	502' FEL	40.012264°	109.474925°	40.012299°	109.474240°	457' FEL
NBU 922-29D1BS	40°00'41.603"	109°28'30.184"	40°00'41.729"	109°28'27.716"	990' FNL	40°00'50.512"	109°28'11.976"	40°00'50.638"	109°28'09.509"	88' FNL
NBU 922-29D1BS	40.011556°	109.475051°	40.011591°	109.474366°	492' FEL	40.014031°	109.469993°	40.014066°	109.469308°	925' FWL
NBU 922-30A	40°00'41.598"	109°28'29.566"	40°00'41.724"	109°28'27.099"	990' FNL					
NBU 922-30A	40.011555°	109.474880°	40.011590°	109.474194°	444' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-30A1BS	899.0'	52.1'	NBU 922-30A1CS	578.5'	54.5'	NBU 922-30A4BS	255.2'	44.9'	NBU 922-29D1BS	901.6'	1,417.2'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30A

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.



CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

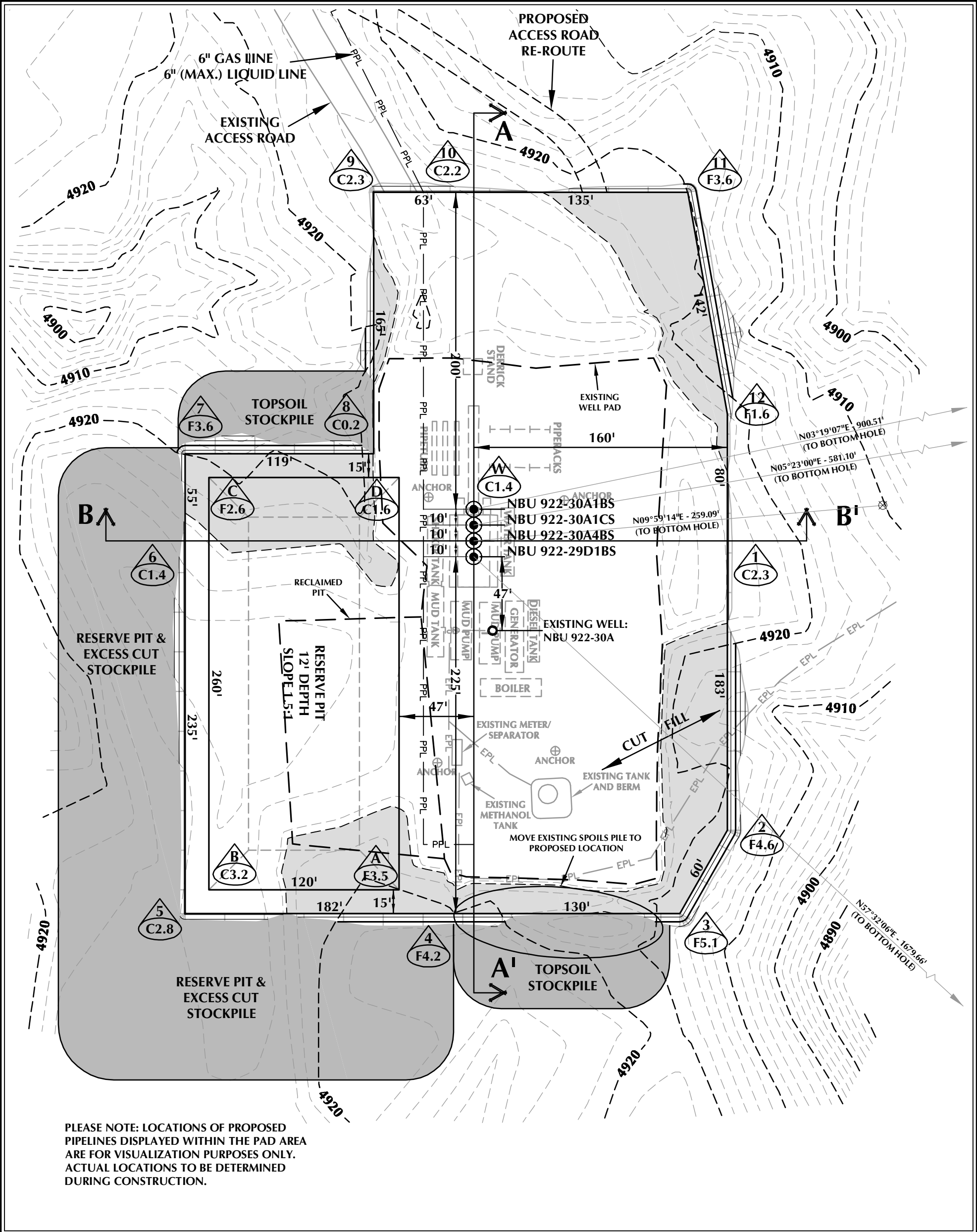
TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 10-14-10	SURVEYED BY: M.S.B.	SHEET NO: 5 5 OF 16
DATE DRAWN: 10-22-10	DRAWN BY: B.M.	
SCALE: 1" = 60'	Date Last Revised: 05-17-11 E.M.S.	

RECEIVED: June 14, 2011



WELL PAD - NBU 922-30A DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4924.9'
FINISHED GRADE ELEVATION = 4923.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.25 ACRES
TOTAL DISTURBANCE AREA = 4.61 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30A

WELL PAD - LOCATION LAYOUT
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 8,036 C.Y.
TOTAL FILL FOR WELL PAD = 3,994 C.Y.
TOPSOIL @ 6" DEPTH = 1,685 C.Y.
EXCESS MATERIAL = 4,042 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



HORIZONTAL 0 30 60 1" = 60'

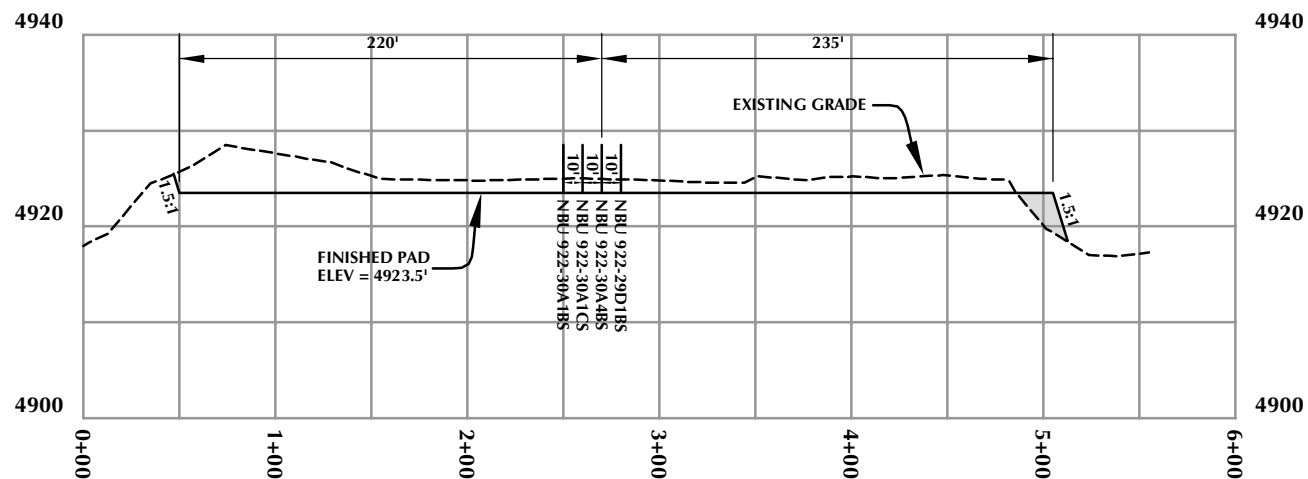
2' CONTOURS

Scale: 1"=60' Date: 1/14/11 SHEET NO:

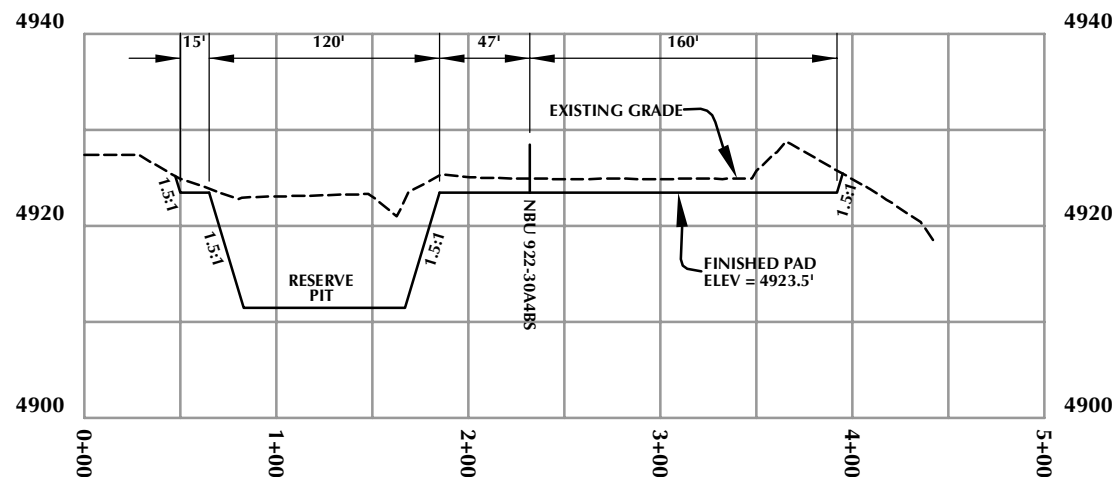
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TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30A

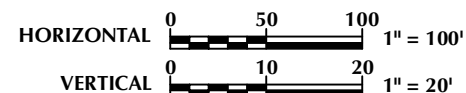
WELL PAD - CROSS SECTIONS
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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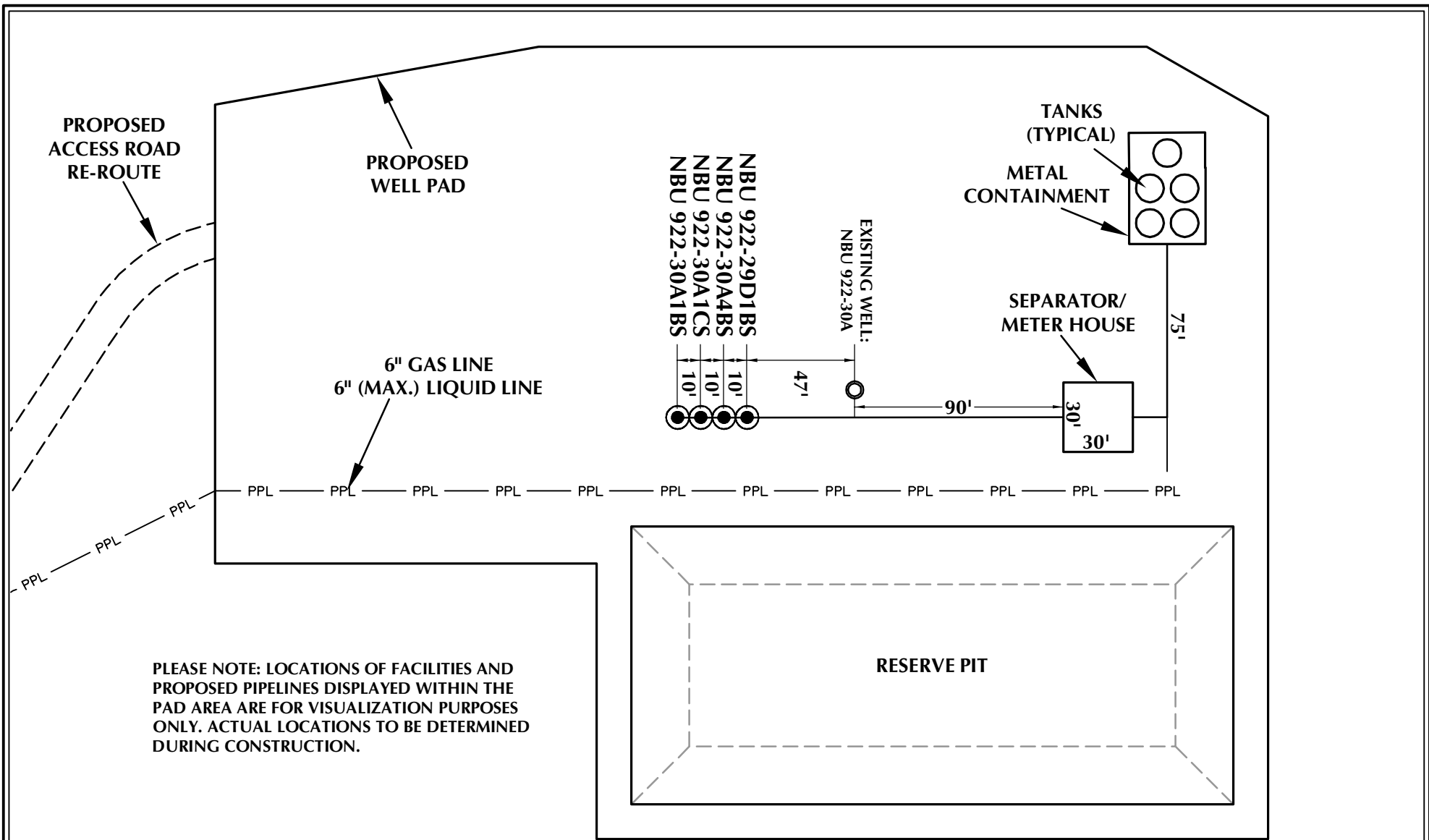
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209 NORTH 300 WEST - VERNAL, UTAH 84078

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Scale: 1"=100'	Date: 1/14/11	SHEET NO:
REVISED:	TAR 5/13/11	7 7 OF 16

RECEIVED: June 14, 2011



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30A

WELL PAD - FACILITIES DIAGRAM
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

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Scale: 1"=60'	Date: 1/14/11
REVISED:	TAR 5/13/11

SHEET NO:
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8 OF 16

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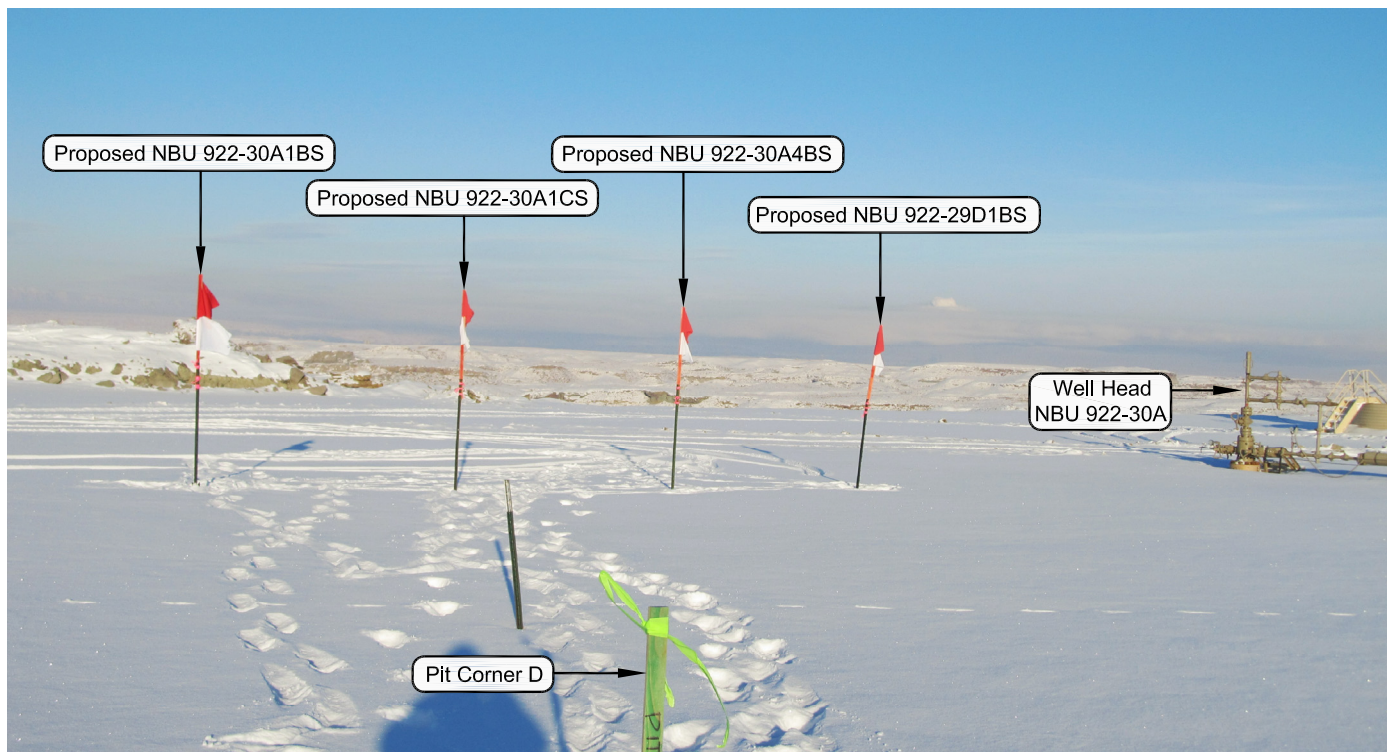


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-30A

LOCATION PHOTOS
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.



CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

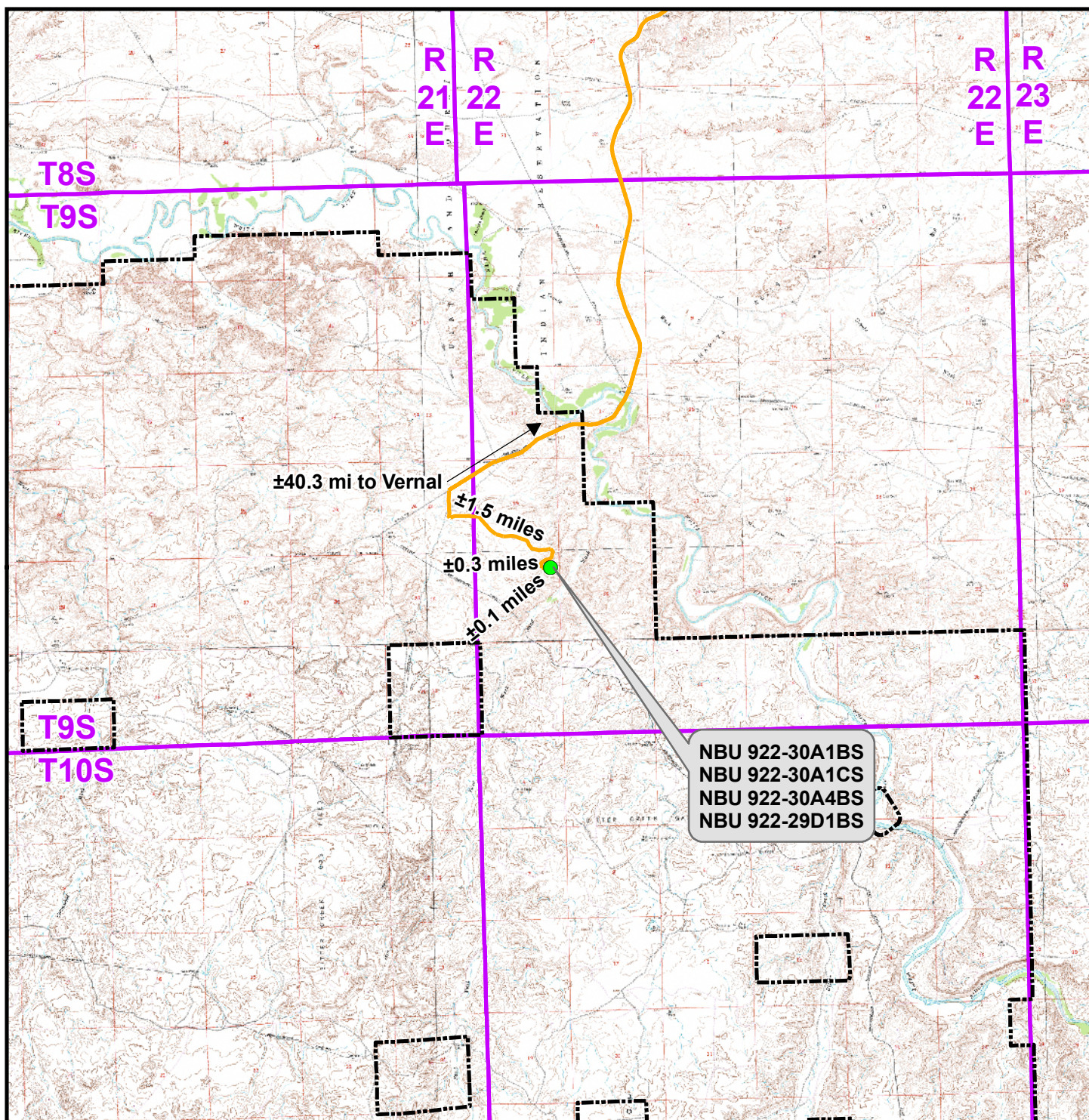
TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 01-04-11	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 9 9 OF 16
DATE DRAWN: 01-05-11	DRAWN BY: E.M.S.	
Date Last Revised:		

RECEIVED: June 14, 2011



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 922-30A To Unit Boundary: ±4,040ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30A

TOPO A

NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
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Sheridan, WY 82801
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Fax (307) 674-0182

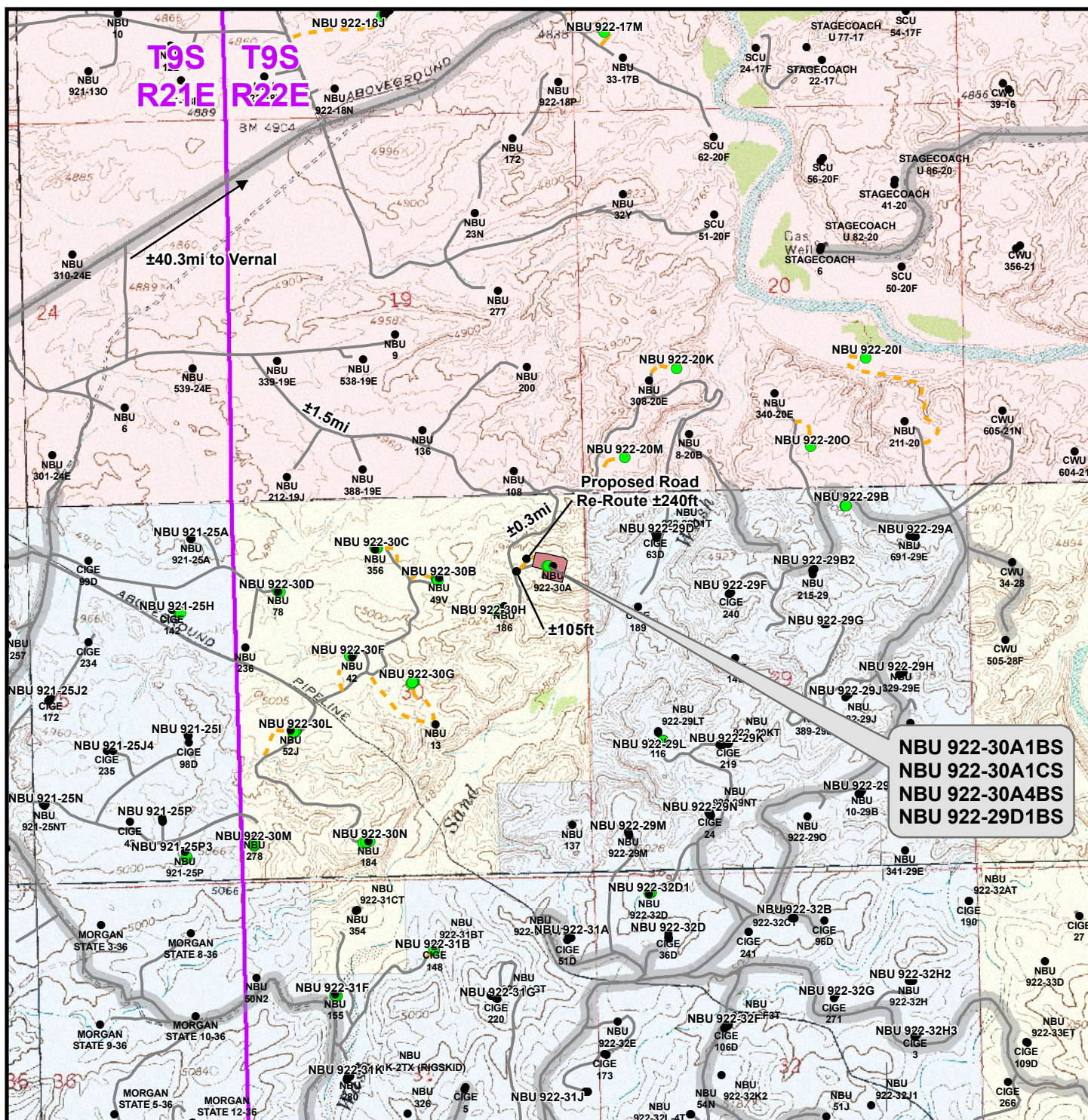


Scale: 1:100,000	NAD83 USP Central
Drawn: KGS	Date: 14 Jan 2011
Revised:	Date:

Sheet No:

10 10 of 16

RECEIVED: June 14, 2011



Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Total Proposed Road Re-Route Length: ±240ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30A

TOPO B

**NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH**



609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



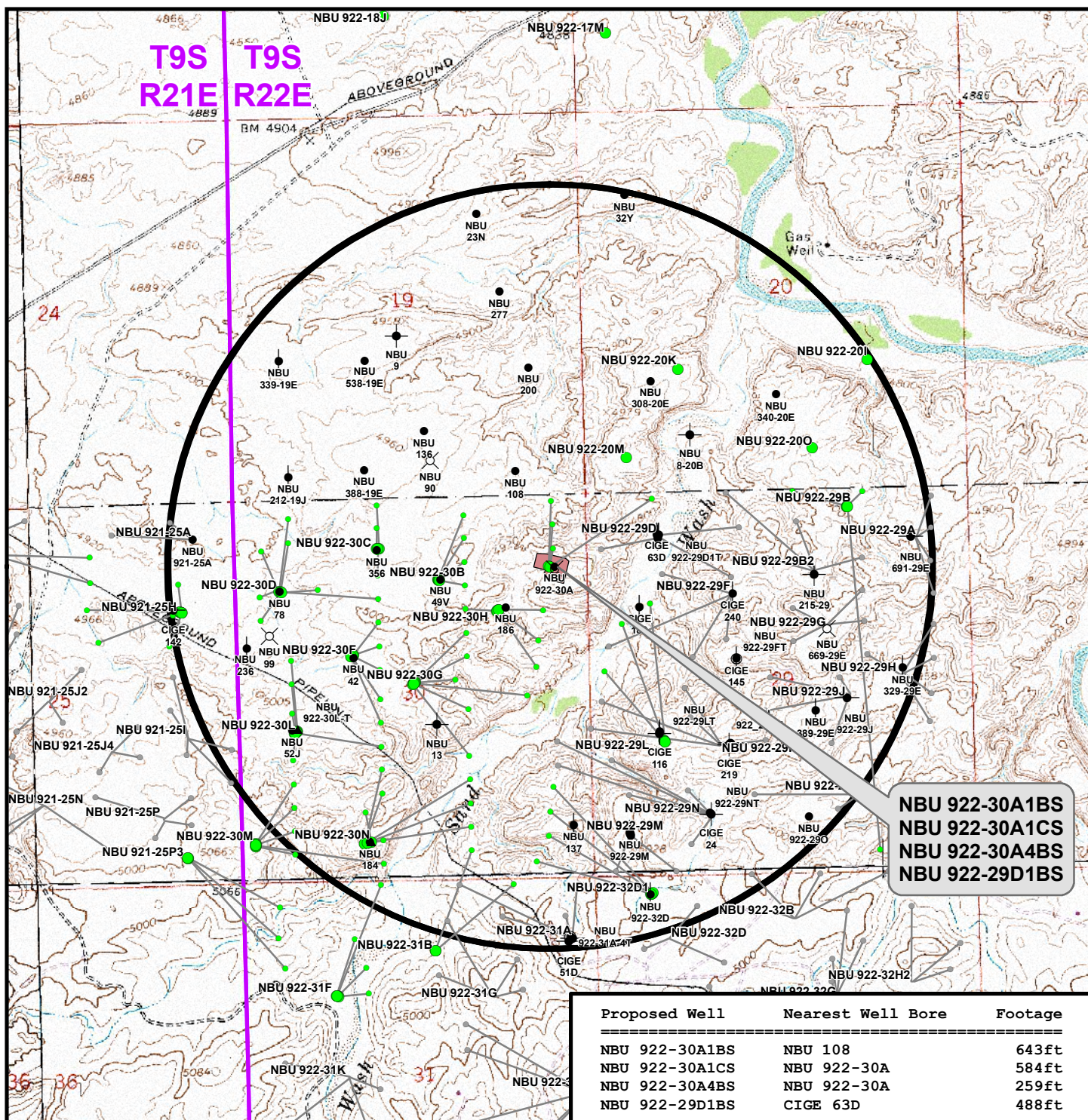
Scale: 1" = 2,000ft
NAD83 USP Central
Drawn: KGS
Revised: KGS

Sheet No:

11

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RECEIVED: June 14, 2011

**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Pad
- Well Path
- Bottom Hole - Existing
- Well - 1 Mile Radius

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30A

TOPO C
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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CONSULTING, LLC
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Sheridan, WY 82801
Phone (307) 674-0609
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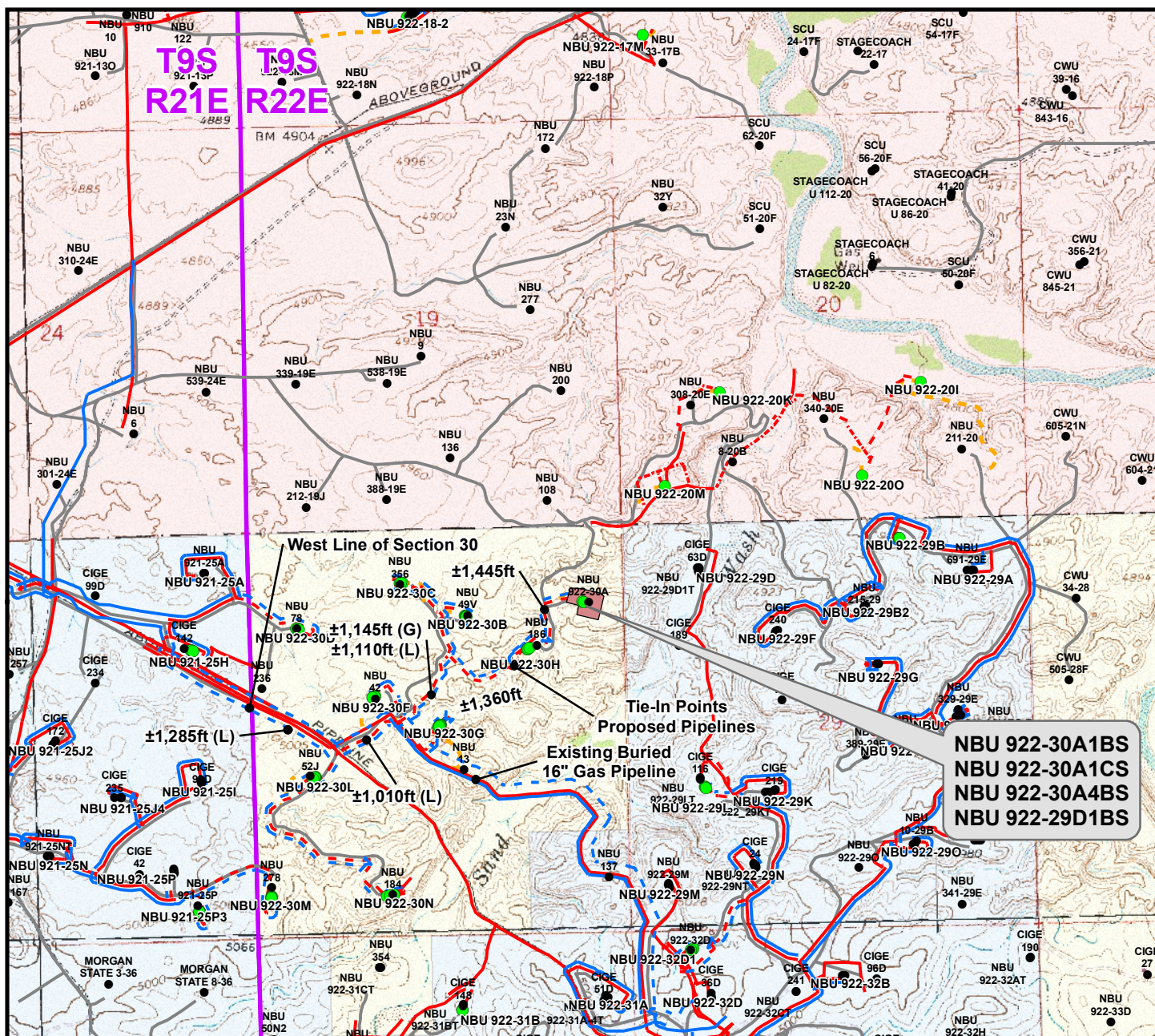
- Producing
- ★ Active
- ☉ Spudded (Drilling commenced: Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

Scale: 1" = 2,000ft NAD83 USP Central Sheet No:

Drawn: KGS Date: 14 Jan 2011
Revised: KGS Date: 13 May 2011

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RECEIVED: June 14, 2011



Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±475ft
Buried 6" (Max.) (Edge of Pad to 30H Intersection)	±1,445ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,920ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±475ft
Buried 6" (Edge of Pad to 30H Intersection)	±1,445ft
TOTAL PROPOSED GAS PIPELINE =	±1,920ft

Legend

- Well - Proposed ■ Well Pad - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - To Be Upgraded - - - Road - Existing Indian Reservation
- - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing - - - Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30A

TOPO D
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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CONSULTING, LLC
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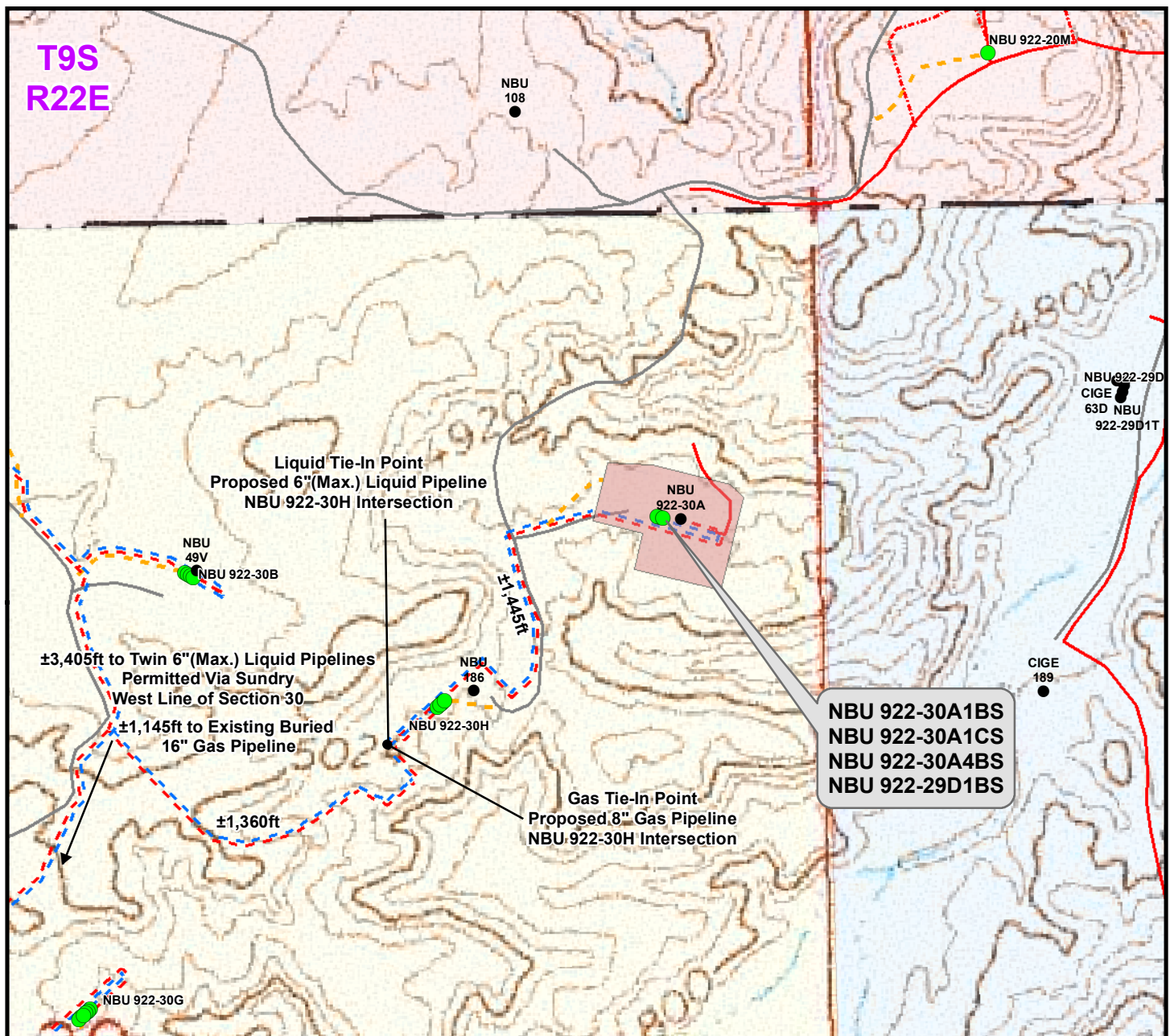


Scale: 1" = 2,000ft NAD83 USP Central
Drawn: KGS Date: 14 Jan 2011
Revised: TL Date: 13 May 2011

Sheet No:

13 13 of 16

RECEIVED: June 14, 2011



Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±475ft
Buried 6" (Max.) (Edge of Pad to 30H Intersection)	±1,445ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,920ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±475ft
Buried 6" (Edge of Pad to 30H Intersection)	±1,445ft
TOTAL PROPOSED GAS PIPELINE =	±1,920ft

Legend

● Well - Proposed	Well Pad	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
● Well - Existing		Gas Pipeline - To Be Upgraded	Liquid Pipeline - To Be Upgraded	Road - Existing	Indian Reservation
		Gas Pipeline - Existing	Liquid Pipeline - Existing		State
					Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

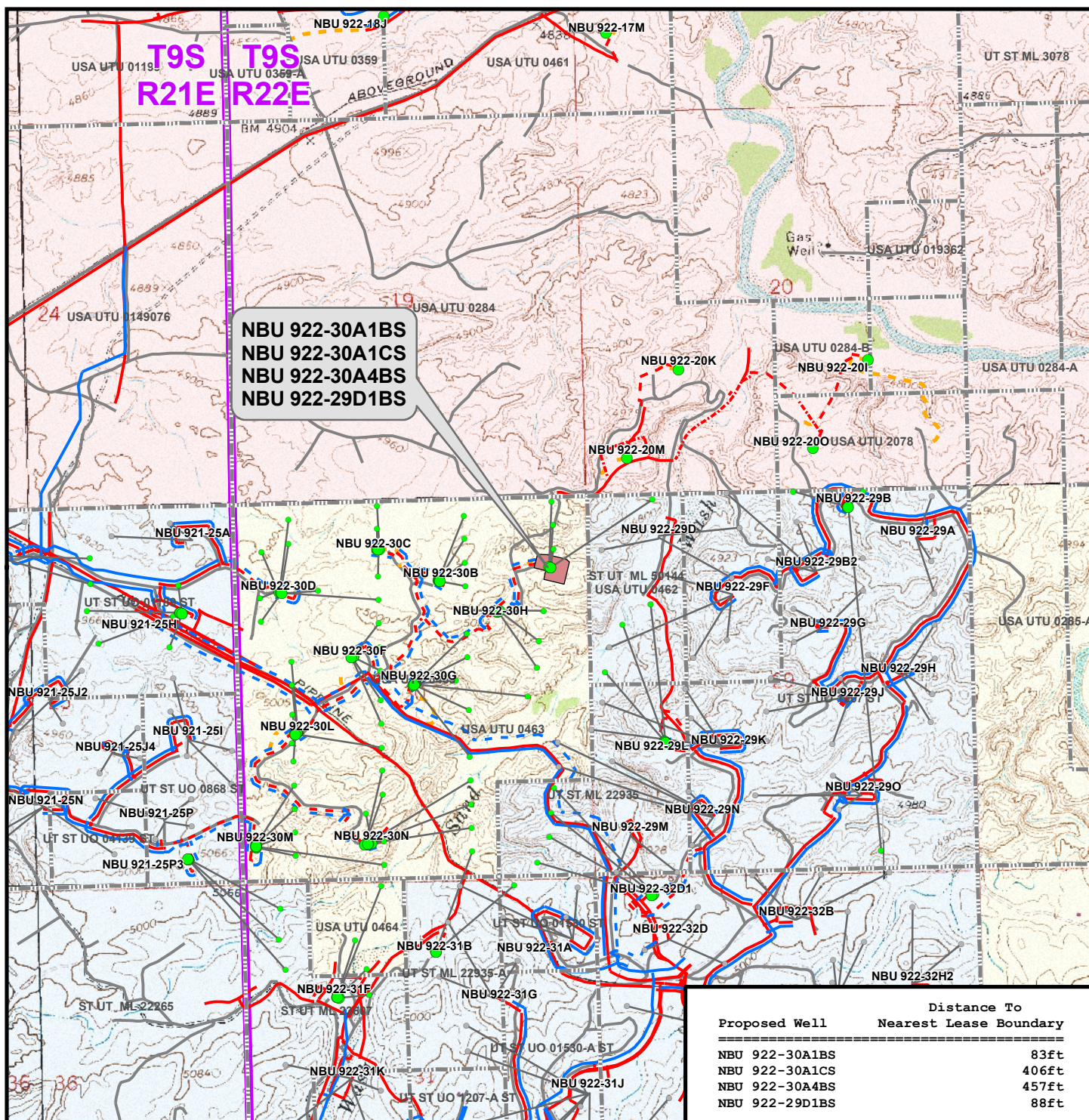
WELL PAD - NBU 922-30A

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 14 Jan 2011	14
Revised: TL	Date: 13 May 2011	14 of 16

RECEIVED: June 14, 2011



Proposed Well	Distance To Nearest Lease Boundary
NBU 922-30A1BS	83ft
NBU 922-30A1CS	406ft
NBU 922-30A4BS	457ft
NBU 922-29D1BS	88ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30A

TOPO E
NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft | NAD83 USP Central | Sheet No:
Drawn: KGS | Date: 14 Jan 2011 | **15**
Revised: TL | Date: 13 May 2011 | 15 of 16

RECEIVED: June 14, 2011

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-30A
WELLS – NBU 922-30A1BS, NBU 922-30A1CS,
NBU 922-30A4BS & NBU 922-29D1BS
Section 30, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 16.8 miles to a service road to the south. Exit left and proceed in a southerly, then southeasterly direction along the service road approximately 1.5 miles to a second service road to the east. Exit right and proceed in a southeasterly, then southwesterly, then southerly direction along the service road approximately 0.3 miles to a second service road to the east. Exit left and proceed in an easterly direction along the second service road approximately 105 feet to the proposed access road. Follow road flags in a northeasterly direction approximately 220 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.2 miles in a southerly direction.

WELL DETAILS: NBU 922-30A1CS									
GL 4924' & KB 9' @ 4933.00ft (ASSUMED)									
	+N/-S 0.00	+E/-W 0.00	Northing 14533927.49	Easting 2067600.61	Latitude 40° 0' 41.782 N	Longitude 109° 28' 27.962 W			
DESIGN TARGET DETAILS									
Name PBHL	TVD 9542.00 - plan hits target center	+N/-S 578.37	+E/-W 54.33	Northing 14534506.70	Easting 2067645.03	Latitude 40° 0' 47.498 N	Longitude 109° 28' 27.264 W	Shape Circle (Radius: 25.0	
FORMATION TOP DETAILS					CASING DETAILS				
TVDPath 1443.00 4724.00 7332.00	MDPath 1462.49 4785.65 7393.65	Formation GREEN RIVER WASATCH MESAVERDE			TVD 2592.00	MD 2643.63	Name 8 5/8"	Size 8.625	
SECTION DETAILS									
	MD 0.00 300.00 969.84 2756.12 3521.65 9603.65	Inc 0.00 0.00 13.40 13.40 0.00 0.00	Azi 0.00 0.00 5.37 5.37 0.00 0.00	TVD 0.00 300.00 963.75 2701.42 3460.00 9542.00	+N/-S 0.00 0.00 77.61 489.67 578.37 578.37	+E/-W 0.00 0.00 7.29 46.00 54.33 54.33	Dleg 0.00 0.00 2.00 0.00 1.75 0.00	TFace 0.00 0.00 5.37 0.00 180.00 0.00	VSect 0.00 0.00 77.95 491.82 580.91 580.91 PBHL_NBU 922-30A1CS
PROJECT DETAILS: Uintah County, UT UTM12									
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 - Western US Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 30 T9S R22E System Datum: Mean Sea Level									

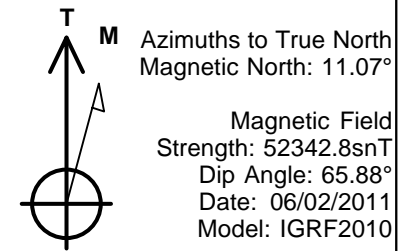
API Well Number: 43047516680000 Object: Uintah County, UT UTM12

Site: NBU 922-30A PAD

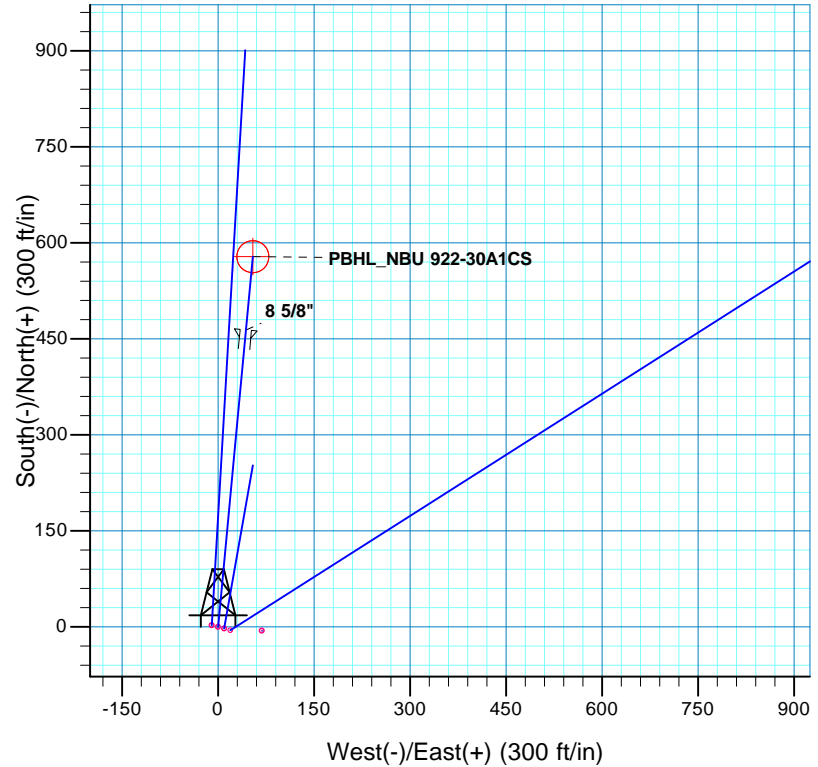
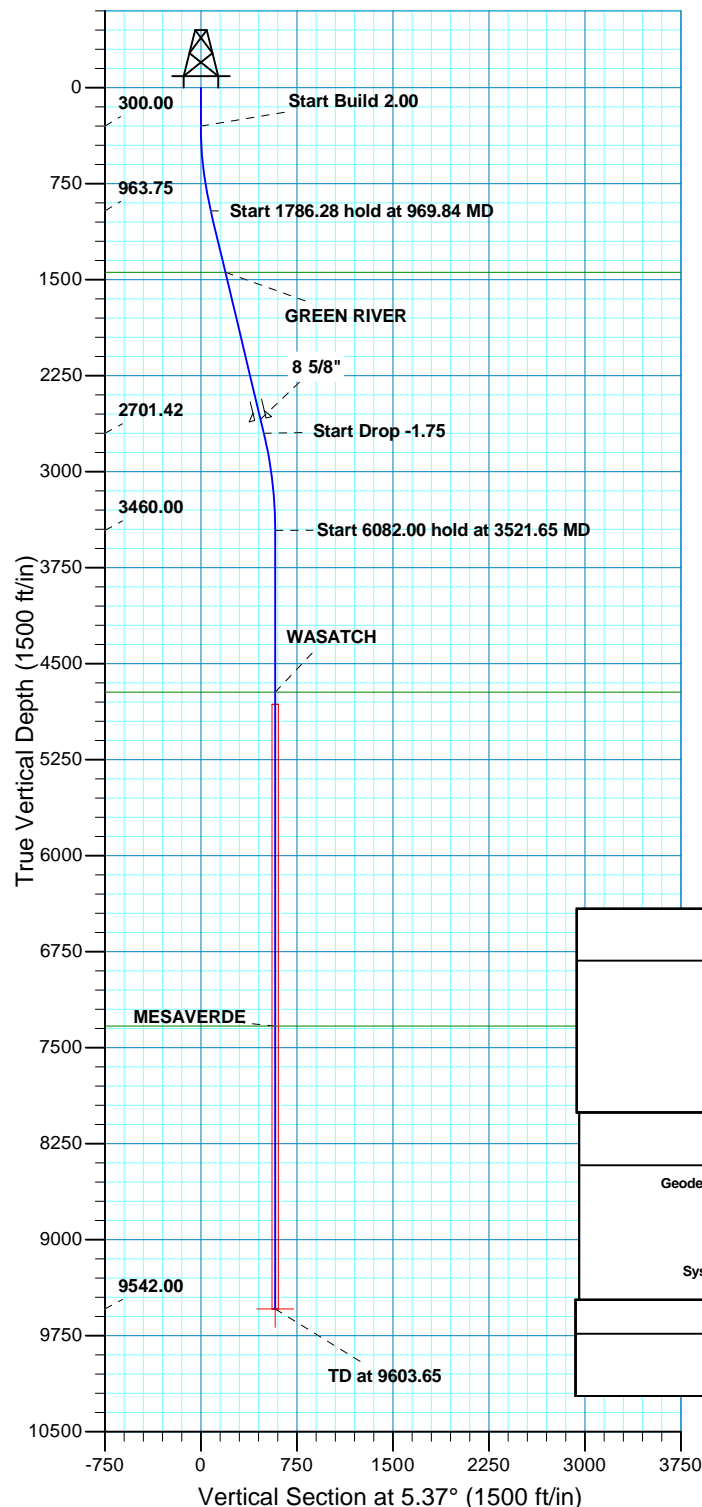
Well: NBU 922-30A1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY



WELL DETAILS: NBU 922-30A1CS						
GL 4924' & KB 9' @ 4933.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14533927.49	2067600.61	40° 0' 41.782 N	109° 28' 27.962 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL	9542.00	578.37	54.33	14534506.70	2067645.03	40° 0' 47.498 N
- plan hits target center						
Longitude	Shape					
109° 28' 27.264 W	Circle (Radius: 25.00)					



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
969.84	13.40	5.37	963.75	77.61	7.29	2.00	5.37	77.95	
2756.12	13.40	5.37	2701.42	489.67	46.00	0.00	0.00	491.82	
3521.65	0.00	0.00	3460.00	578.37	54.33	1.75	180.00	580.91	
9603.65	0.00	0.00	9542.00	578.37	54.33	0.00	0.00	580.91	PBHL_NBU 922-30A1CS
PROJECT DETAILS: Uintah County, UT UTM12						FORMATION TOP DETAILS			
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 - Western US Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 30 T9S R22E System Datum: Mean Sea Level						TVDPath	MDPath	Formation	
						1443.00	1462.49	GREEN RIVER	
						4724.00	4785.65	WASATCH	
						7332.00	7393.65	MESAVERDE	
CASING DETAILS									
			TVD	MD	Name	Size			
			2592.00	2643.63	8 5/8"	8.625			

Plan: PLAN #1 PRELIMINARY (NBU 922-30A1CS/OH)

Created By: RobertScott Date: 12:56, June 06 2011

REC



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 922-30A PAD

NBU 922-30A1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

06 June, 2011





SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30A1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Site:	NBU 922-30A PAD	North Reference:	True
Well:	NBU 922-30A1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-30A PAD, SECTION 30 T9S R22E			
Site Position:		Northing:	14,533,922.36 usft	Latitude: 40° 0' 41.728 N
From:	Lat/Long	Easting:	2,067,619.74 usft	Longitude: 109° 28' 27.718 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.98 °

Well	NBU 922-30A1CS, 985 FNL 512 FEL					
Well Position	+N/-S	5.46 ft	Northing:	14,533,927.50 usft	Latitude:	40° 0' 41.782 N
	+E/-W	-19.04 ft	Easting:	2,067,600.61 usft	Longitude:	109° 28' 27.962 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,924.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/02/2011	11.07	65.88	52,343

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	5.37

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
969.84	13.40	5.37	963.75	77.61	7.29	2.00	2.00	0.00	5.37	
2,756.12	13.40	5.37	2,701.42	489.67	46.00	0.00	0.00	0.00	0.00	
3,521.65	0.00	0.00	3,460.00	578.37	54.33	1.75	-1.75	0.00	180.00	
9,603.65	0.00	0.00	9,542.00	578.37	54.33	0.00	0.00	0.00	0.00	PBHL_NBU 922-30A'

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30A1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Site:	NBU 922-30A PAD	North Reference:	True
Well:	NBU 922-30A1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	5.37	399.98	1.74	0.16	1.75	2.00	2.00	0.00
500.00	4.00	5.37	499.84	6.95	0.65	6.98	2.00	2.00	0.00
600.00	6.00	5.37	599.45	15.62	1.47	15.69	2.00	2.00	0.00
700.00	8.00	5.37	698.70	27.76	2.61	27.88	2.00	2.00	0.00
800.00	10.00	5.37	797.47	43.33	4.07	43.52	2.00	2.00	0.00
900.00	12.00	5.37	895.62	62.33	5.86	62.60	2.00	2.00	0.00
969.84	13.40	5.37	963.75	77.61	7.29	77.95	2.00	2.00	0.00
Start 1786.28 hold at 969.84 MD									
1,000.00	13.40	5.37	993.09	84.57	7.94	84.94	0.00	0.00	0.00
1,100.00	13.40	5.37	1,090.37	107.64	10.11	108.11	0.00	0.00	0.00
1,200.00	13.40	5.37	1,187.65	130.71	12.28	131.28	0.00	0.00	0.00
1,300.00	13.40	5.37	1,284.93	153.77	14.45	154.45	0.00	0.00	0.00
1,400.00	13.40	5.37	1,382.21	176.84	16.61	177.62	0.00	0.00	0.00
1,462.49	13.40	5.37	1,443.00	191.26	17.97	192.10	0.00	0.00	0.00
GREEN RIVER									
1,500.00	13.40	5.37	1,479.49	199.91	18.78	200.79	0.00	0.00	0.00
1,600.00	13.40	5.37	1,576.77	222.98	20.95	223.96	0.00	0.00	0.00
1,700.00	13.40	5.37	1,674.04	246.04	23.11	247.13	0.00	0.00	0.00
1,800.00	13.40	5.37	1,771.32	269.11	25.28	270.30	0.00	0.00	0.00
1,900.00	13.40	5.37	1,868.60	292.18	27.45	293.47	0.00	0.00	0.00
2,000.00	13.40	5.37	1,965.88	315.25	29.61	316.64	0.00	0.00	0.00
2,100.00	13.40	5.37	2,063.16	338.32	31.78	339.81	0.00	0.00	0.00
2,200.00	13.40	5.37	2,160.44	361.38	33.95	362.97	0.00	0.00	0.00
2,300.00	13.40	5.37	2,257.72	384.45	36.12	386.14	0.00	0.00	0.00
2,400.00	13.40	5.37	2,355.00	407.52	38.28	409.31	0.00	0.00	0.00
2,500.00	13.40	5.37	2,452.28	430.59	40.45	432.48	0.00	0.00	0.00
2,600.00	13.40	5.37	2,549.55	453.65	42.62	455.65	0.00	0.00	0.00
2,643.63	13.40	5.37	2,592.00	463.72	43.56	465.76	0.00	0.00	0.00
8 5/8"									
2,700.00	13.40	5.37	2,646.83	476.72	44.78	478.82	0.00	0.00	0.00
2,756.12	13.40	5.37	2,701.42	489.67	46.00	491.82	0.00	0.00	0.00
Start Drop -1.75									
2,800.00	12.63	5.37	2,744.18	499.51	46.92	501.70	1.75	-1.75	0.00
2,900.00	10.88	5.37	2,842.08	519.79	48.83	522.07	1.75	-1.75	0.00
3,000.00	9.13	5.37	2,940.55	537.08	50.45	539.45	1.75	-1.75	0.00
3,100.00	7.38	5.37	3,039.51	551.37	51.80	553.80	1.75	-1.75	0.00
3,200.00	5.63	5.37	3,138.87	562.65	52.86	565.13	1.75	-1.75	0.00
3,300.00	3.88	5.37	3,238.52	570.90	53.63	573.41	1.75	-1.75	0.00
3,400.00	2.13	5.37	3,338.38	576.12	54.12	578.65	1.75	-1.75	0.00
3,500.00	0.38	5.37	3,438.35	578.30	54.33	580.84	1.75	-1.75	0.00
3,521.65	0.00	0.00	3,460.00	578.37	54.33	580.91	1.75	-1.75	0.00
Start 6082.00 hold at 3521.65 MD									
3,600.00	0.00	0.00	3,538.35	578.37	54.33	580.91	0.00	0.00	0.00
3,700.00	0.00	0.00	3,638.35	578.37	54.33	580.91	0.00	0.00	0.00
3,800.00	0.00	0.00	3,738.35	578.37	54.33	580.91	0.00	0.00	0.00
3,900.00	0.00	0.00	3,838.35	578.37	54.33	580.91	0.00	0.00	0.00
4,000.00	0.00	0.00	3,938.35	578.37	54.33	580.91	0.00	0.00	0.00
4,100.00	0.00	0.00	4,038.35	578.37	54.33	580.91	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30A1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Site:	NBU 922-30A PAD	North Reference:	True
Well:	NBU 922-30A1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	0.00	0.00	4,138.35	578.37	54.33	580.91	0.00	0.00	0.00
4,300.00	0.00	0.00	4,238.35	578.37	54.33	580.91	0.00	0.00	0.00
4,400.00	0.00	0.00	4,338.35	578.37	54.33	580.91	0.00	0.00	0.00
4,500.00	0.00	0.00	4,438.35	578.37	54.33	580.91	0.00	0.00	0.00
4,600.00	0.00	0.00	4,538.35	578.37	54.33	580.91	0.00	0.00	0.00
4,700.00	0.00	0.00	4,638.35	578.37	54.33	580.91	0.00	0.00	0.00
4,785.65	0.00	0.00	4,724.00	578.37	54.33	580.91	0.00	0.00	0.00
WASATCH									
4,800.00	0.00	0.00	4,738.35	578.37	54.33	580.91	0.00	0.00	0.00
4,900.00	0.00	0.00	4,838.35	578.37	54.33	580.91	0.00	0.00	0.00
5,000.00	0.00	0.00	4,938.35	578.37	54.33	580.91	0.00	0.00	0.00
5,100.00	0.00	0.00	5,038.35	578.37	54.33	580.91	0.00	0.00	0.00
5,200.00	0.00	0.00	5,138.35	578.37	54.33	580.91	0.00	0.00	0.00
5,300.00	0.00	0.00	5,238.35	578.37	54.33	580.91	0.00	0.00	0.00
5,400.00	0.00	0.00	5,338.35	578.37	54.33	580.91	0.00	0.00	0.00
5,500.00	0.00	0.00	5,438.35	578.37	54.33	580.91	0.00	0.00	0.00
5,600.00	0.00	0.00	5,538.35	578.37	54.33	580.91	0.00	0.00	0.00
5,700.00	0.00	0.00	5,638.35	578.37	54.33	580.91	0.00	0.00	0.00
5,800.00	0.00	0.00	5,738.35	578.37	54.33	580.91	0.00	0.00	0.00
5,900.00	0.00	0.00	5,838.35	578.37	54.33	580.91	0.00	0.00	0.00
6,000.00	0.00	0.00	5,938.35	578.37	54.33	580.91	0.00	0.00	0.00
6,100.00	0.00	0.00	6,038.35	578.37	54.33	580.91	0.00	0.00	0.00
6,200.00	0.00	0.00	6,138.35	578.37	54.33	580.91	0.00	0.00	0.00
6,300.00	0.00	0.00	6,238.35	578.37	54.33	580.91	0.00	0.00	0.00
6,400.00	0.00	0.00	6,338.35	578.37	54.33	580.91	0.00	0.00	0.00
6,500.00	0.00	0.00	6,438.35	578.37	54.33	580.91	0.00	0.00	0.00
6,600.00	0.00	0.00	6,538.35	578.37	54.33	580.91	0.00	0.00	0.00
6,700.00	0.00	0.00	6,638.35	578.37	54.33	580.91	0.00	0.00	0.00
6,800.00	0.00	0.00	6,738.35	578.37	54.33	580.91	0.00	0.00	0.00
6,900.00	0.00	0.00	6,838.35	578.37	54.33	580.91	0.00	0.00	0.00
7,000.00	0.00	0.00	6,938.35	578.37	54.33	580.91	0.00	0.00	0.00
7,100.00	0.00	0.00	7,038.35	578.37	54.33	580.91	0.00	0.00	0.00
7,200.00	0.00	0.00	7,138.35	578.37	54.33	580.91	0.00	0.00	0.00
7,300.00	0.00	0.00	7,238.35	578.37	54.33	580.91	0.00	0.00	0.00
7,393.65	0.00	0.00	7,332.00	578.37	54.33	580.91	0.00	0.00	0.00
MESAVERDE									
7,400.00	0.00	0.00	7,338.35	578.37	54.33	580.91	0.00	0.00	0.00
7,500.00	0.00	0.00	7,438.35	578.37	54.33	580.91	0.00	0.00	0.00
7,600.00	0.00	0.00	7,538.35	578.37	54.33	580.91	0.00	0.00	0.00
7,700.00	0.00	0.00	7,638.35	578.37	54.33	580.91	0.00	0.00	0.00
7,800.00	0.00	0.00	7,738.35	578.37	54.33	580.91	0.00	0.00	0.00
7,900.00	0.00	0.00	7,838.35	578.37	54.33	580.91	0.00	0.00	0.00
8,000.00	0.00	0.00	7,938.35	578.37	54.33	580.91	0.00	0.00	0.00
8,100.00	0.00	0.00	8,038.35	578.37	54.33	580.91	0.00	0.00	0.00
8,200.00	0.00	0.00	8,138.35	578.37	54.33	580.91	0.00	0.00	0.00
8,300.00	0.00	0.00	8,238.35	578.37	54.33	580.91	0.00	0.00	0.00
8,400.00	0.00	0.00	8,338.35	578.37	54.33	580.91	0.00	0.00	0.00
8,500.00	0.00	0.00	8,438.35	578.37	54.33	580.91	0.00	0.00	0.00
8,600.00	0.00	0.00	8,538.35	578.37	54.33	580.91	0.00	0.00	0.00
8,700.00	0.00	0.00	8,638.35	578.37	54.33	580.91	0.00	0.00	0.00
8,800.00	0.00	0.00	8,738.35	578.37	54.33	580.91	0.00	0.00	0.00
8,900.00	0.00	0.00	8,838.35	578.37	54.33	580.91	0.00	0.00	0.00
9,000.00	0.00	0.00	8,938.35	578.37	54.33	580.91	0.00	0.00	0.00
9,100.00	0.00	0.00	9,038.35	578.37	54.33	580.91	0.00	0.00	0.00



SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30A1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4924' & KB 9' @ 4933.00ft (ASSUMED)
Site:	NBU 922-30A PAD	North Reference:	True
Well:	NBU 922-30A1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,200.00	0.00	0.00	9,138.35	578.37	54.33	580.91	0.00	0.00	0.00
9,300.00	0.00	0.00	9,238.35	578.37	54.33	580.91	0.00	0.00	0.00
9,400.00	0.00	0.00	9,338.35	578.37	54.33	580.91	0.00	0.00	0.00
9,500.00	0.00	0.00	9,438.35	578.37	54.33	580.91	0.00	0.00	0.00
9,600.00	0.00	0.00	9,538.35	578.37	54.33	580.91	0.00	0.00	0.00
9,603.65	0.00	0.00	9,542.00	578.37	54.33	580.91	0.00	0.00	0.00
PBHL_NBU 922-30A1CS									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-30A1CS - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,542.00	578.37	54.33	14,534,506.71	2,067,645.03	40° 0' 47.498 N	109° 28' 27.264 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,643.63	2,592.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,462.49	1,443.00	GREEN RIVER			
4,785.65	4,724.00	WASATCH			
7,393.65	7,332.00	MESAVERDE			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
969.84	963.75	77.61	7.29	Start 1786.28 hold at 969.84 MD	
2,756.12	2,701.42	489.67	46.00	Start Drop -1.75	
3,521.65	3,460.00	578.37	54.33	Start 6082.00 hold at 3521.65 MD	
9,603.65	9,542.00	578.37	54.33	TD at 9603.65	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-30A Pad**

<u>API #</u>	<u>NBU 922-30A1BS</u>		
	Surface: 982 FNL / 521 FEL	NENE	Lot
	BHL: 83 FNL / 469 FEL	NENE	Lot
<u>API #</u>	<u>NBU 922-30A1CS</u>		
	Surface: 985 FNL / 512 FEL	NENE	Lot
	BHL: 406 FNL / 457 FEL	NENE	Lot
<u>API #</u>	<u>NBU 922-30A4BS</u>		
	Surface: 987 FNL / 502 FEL	NENE	Lot
	BHL: 732 FNL / 457 FEL	NENE	Lot
<u>API #</u>	<u>NBU 922-29D1BS</u>		
	Surface: 990 FNL / 492 FEL	NENE	Lot
	BHL: 88 FNL / 925 FWL	NWNW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on May 5, 2011. Present were:

- David Gordon, Melissa Wardle, Karl Wright and Dan Emmett - BLM; and
- John Slaugh and Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Jacob Dunham - 609 Consulting, LLC; and
- Andy Lytle, Charles Chase, Ken Gathings, Roger Parry, Grizz Oleen, and Sheila Wopsock - Kerr-McGee

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All

disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

No segments require a ROW.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book)(USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road-utility corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s) adjacent to the well pad, as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the

NBU 922-30A1BS / 922-30A1CS / 922-30A4BS / 922-29D1BS
Kerr-McGee Oil Gas Onshore, L.P.

NBU 922-30A Pad
Surface Use Plan of Operations
3 of 14

remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments are "on-lease"

±240' (0.05 miles) – Section 30 T09S R22E (NE/4 NE/4) – On-lease UTU0463, re-route from the center of the NW edge of pad to the existing access road. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 922-30A, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on June 2, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components that contain fluids (i.e. production tanks, produced liquids tanks, but typically excluding dehy's and/or separators). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event, and be independent of the back cut. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit A and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material is steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is ±4,430' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±475' (0.09 miles) – Section 30 T09S R22E (NE/4 NE/4) – On-lease UTU0463, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±1,445' (0.27 miles) – Section 30 T09S R22E (NE/4 NE/4) – On-lease UTU0463, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the tie-in at the proposed 8" gas gathering pipeline at the 30H intersection. (SE/4 NE/4). Please refer to Exhibit A, Line 10.
- ±150' (0.03 miles) – Section 30 T09S R22E (SW/4 NE/4) – On-lease UTU0463, BLM surface, New 8" buried gas gathering pipeline from the 6" 30A/30H intersection to the edge of the 30H pad (SW/4 NE/4). This pipeline will be used concurrently with the 30H pad. Please refer to Exhibit A, Line 9.
- ±1,210' (0.23 miles) – Section 30 T09S R22E (SW/4 NE/4) – On-lease UTU0463, BLM surface, New 8" cross country buried gas gathering pipeline from the edge of the 30H pad to the 10" proposed gas gathering pipeline 30B intersection (SW/4 NE/4). This pipeline will be used concurrently with the 30H pad. Please refer to Exhibit A, Line 8.

- ±320' (0.06 miles) – Section 30 T09S R22E (SW/4 NE/4) – On-lease UTU0463, BLM surface, New 10" buried gas gathering pipeline from the 30H 8" cross country intersection to the proposed 10" cross country gas gathering pipeline intersection (SE/4 NW/4).
This pipeline will be used concurrently with the 30H, 30C, and 30B pads. Please refer to Exhibit A, Line 4.
- ±510' (0.09 miles) – Section 30 T09S R22E (SE/4 NW/4) – On-lease UTU0463, BLM surface, New 10" cross country buried gas gathering pipeline from the proposed 10" gas gathering intersection to the proposed 10" gas pipeline (SE/4 NW/4).
This pipeline will be used concurrently with the 30H, 30C, and 30B pads. Please refer to Exhibit A, Line 3.
- ±320' (0.06 miles) – Section 30 T09S R22E (SE/4 NW/4) – On-lease UTU0463, BLM surface, New 10" buried gas gathering pipeline from the proposed cross country gas gathering pipeline segment to the existing 16" gas gathering pipeline tie-in point (SE/4 NW/4). Please refer to
This pipeline will be used concurrently with the 30H, 30C, 30B, 30G, and 30F pads. Exhibit A, Lines 1 and 2.

LIQUID GATHERING*Please refer to Exhibit B and Topo D- Pad and Pipeline Detail.*

Kerr-McGee proposes to install liquid gathering lines in a southwesterly direction to tie into a proposed southeasterly flowing buried pipeline. The total of this proposed liquid gathering from the meter to the Section lease line (SE/4 SE/4) is ±8,280' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±475' (0.09 miles) – Section 30 T09S R22E (NE/4 NE/4) – On-lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±1,595' (0.3 miles) – Section 30 T09S R22E (NE/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the edge of the 30A pad to the tie-in at the proposed 30H intersection (SW/4 NE/4). Please refer to Exhibit B, Lines 11, and 10. This pipeline will be used concurrently with the 30H pad.
- ±1,210' (0.23 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried cross country liquid gathering pipeline from the edge of the 30H pad to the tie-in at the proposed 6" buried liquid gathering line 30B intersection segment (SW/4 NE/4). Please refer to Exhibit B, Line 9. This pipeline will be used concurrently with the 30H pad.
- ±320' (0.06 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the proposed 30B/30H 6" buried liquid gathering pipeline intersection to the proposed 6" cross country liquid gathering pipeline (SE/4 NW/4).
Please refer to Exhibit A, Line 5. This pipeline will be used concurrently with the 30H, 30C, and 30B pads.
- ±510' (0.09 miles) – Section 30 T09S R22E (SE/4 NW/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the proposed 6" 30B pipeline segment to the proposed 6" liquid gathering pipeline segment (SW/4 NE/4). Please refer to Exhibit B, Line 4. This pipeline will be used concurrently with the 30H, 30C, and 30B pads.
- ±285' (0.05 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the proposed 30B cross country 6" liquid gathering line to the (2) proposed twin 6" liquid gathering pipelines at the 30F intersection (SE/4 NW/4). Please refer Exhibit B, Line 3. This pipeline will be used concurrently with the 30H, 30C, 30B, 30G, and 30F pads.
- ±495' (0.09 miles) – Section 30 T09S R22E (SE/4 NW/4) – Lease UTU0463, BLM surface, Two (2) new 6" buried liquid gathering pipelines from the proposed Transfer line to the tie-in point at the proposed 30G/30F intersection (SW/4 NE/4). Please refer Exhibit B, Line 13. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30N, and 30L pads. Two (2) Lines for a total of 990'.
- ±2,895' (0.55 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6"

buried liquid gathering pipeline from the proposed 30G/30F intersection going southeast to the edge of the lease boundary of SE/4 SE/4. Please refer to Exhibit B, Line 15. The remaining liquid pipeline segment will travel to the existing tank battery on State surface. Kerr-McGee will apply for the appropriate State easements under separate cover. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30N, and 30L pads.

Kerr-McGee, additionally will install a liquid gathering line in a southwesterly direction to tie-into a proposed northwesterly flowing buried pipeline. The total of this proposed liquid gathering from the meter to the tie in point is $\pm 8,985'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- $\pm 475'$ (0.09 miles) – Section 30 T09S R22E (NE/4 NE/4) – On-lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 1,595'$ (0.3 miles) – Section 30 T09S R22E (NE/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the edge of the 30A pad to the tie-in at the proposed 30H intersection (SW/4 NE/4). Please refer to Exhibit B, Lines 11, and 10. This pipeline will be used concurrently with the 30H pad.
- $\pm 1,210'$ (0.23 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried cross country liquid gathering pipeline from the edge of the 30H pad to the tie-in at the proposed 6" buried liquid gathering line 30B intersection segment (SW/4 NE/4). Please refer to Exhibit B, Line 9. This pipeline will be used concurrently with the 30H pad.
- $\pm 320'$ (0.06 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the proposed 30B/30H 6" buried liquid gathering pipeline intersection to the proposed 6" cross country liquid gathering pipeline (SE/4 NW/4). Please refer to Exhibit A, Line 5. This pipeline will be used concurrently with the 30H, 30C, and 30B pads.
- $\pm 510'$ (0.09 miles) – Section 30 T09S R22E (SE/4 NW/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the proposed 6" 30B pipeline segment to the proposed 6" liquid gathering pipeline segment (SW/4 NE/4). Please refer to Exhibit B, Line 4. This pipeline will be used concurrently with the 30H, 30C, and 30B pads.
- $\pm 285'$ (0.05 miles) – Section 30 T09S R22E (SW/4 NE/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the proposed 30B cross country 6" liquid gathering line to the (2) proposed twin 6" liquid gathering pipelines at the 30F intersection (SE/4 NW/4). Please refer to Exhibit B, Line 3. This pipeline will be used concurrently with the 30H, 30C, 30B, 30G, and 30F pads.
- $\pm 1,010'$ (0.19 miles) – Section 30 T09S R22E (SE/4 NW/4) – Lease UTU0463, BLM surface, Two (2) new 6" buried liquid gathering pipelines from the proposed 30G Intersection to the proposed 30L intersection (SE/4 NW/4). Please refer to Exhibit B, Line 2. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30N, and 30L pads. Two (2) lines for a total of 2,020'.
- $\pm 1,285'$ (0.24 miles) – Section 30 T09S R22E (NW/4 SW/4) – Lease UTU0463, BLM surface, Two (2) new 6" buried liquid gathering pipelines from the proposed 30L Intersection to the West Line of Section 30 where it will tie-into an existing liquid gathering pipeline on State surface. Please refer to Exhibit B, Line 1. Two (2) lines for a total of 2,570'. This pipeline will be used concurrently with the 30H, 30C, 30B, 30F, 30G, 30N, and 30L pads.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr-McGee. Gas gathering pipeline(s), gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45' for buried lines and 30' for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30'.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If all three lines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will

be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface. Please see site specific PODs and/or mapping materials for location of related facilities such as cathodic protection wells or pumping stations. Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, lateral T's, and/or cathodic protection wells will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize the pit on this the proposed location as an Anadarko Completion Transport System (ACTS) staging pit which will be utilized for other completion operations in the area. The ACTS process will reduce the amount of truck traffic on a field-wide basis, also reducing vehicle emissions and fugitive dust generation.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit. Hog fence panels (5' X 16') will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will be also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum pipe water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. Kerr-McGee understands that due to the temporary nature of this system BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil/topsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/

sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off,

ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g), containing current Material Safety Data Sheets

(MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance, or meet the quantities criteria per BLM Instruction Memorandum No. 93-344, will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

Where produced liquids tanks are utilized, the tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids. The tanks will be fenced or capped to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without the prior approval of the BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for

interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24" on 18 to 24" centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18" deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location

and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Shadescale Mix	Pure Live Seed lbs/acre
Indian Ricegrass (Nezpar)	3
Sandberg bluegrass	0.75
Bottlebrush squirreltail	1
Great Basin Wildrye	0.5
Crested wheatgrass (Ephraim)	1.5
Winterfat	0.25
Shadescale	1.5
Four-wing saltbush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a

minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed

Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)
All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 31, of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Onsite Specifics:

- A 404 Stream Alteration Permit will be obtained to cross the Sand Wash in the SE/4 of the section - See Exhibit A or B.
- The operator will obtain the necessary 404 Stream Alteration Permit for the associated pipeline corridor for this pad.
- Facilities: Will be painted Shadow Grey
- Existing surface gas gathering pipeline will be removed from location if no longer in service

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

NBU 922-30A1BS / 922-30A1CS / 922-30A4BS / 922-29D1BS
Kerr-McGee Oil Gas Onshore, L.P.

NBU 922-30A Pad
Surface Use Plan of Operations
14 of 14

Resource Reports:

A Class I literature survey was completed on February 11, 2011, by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-243b.

A paleontological reconnaissance survey was completed on December 27, 2010, by Intermountain Paleo-Consulting. For additional details please refer to report IPC #10-32.

Biological field survey was completed on January 27, 2011, by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-399.

Biological field survey was completed for the Southeast Trunk Liquid Line on June 2, 2011, by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-457.

M. Lessee's or Operators' Representative & Certification:

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Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Laura Abrams

June 2, 2011
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

April 4, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 922-30A1CS
T9S-R22E
Section 30 NENE (Surf), NENE (Bottom)
Surface: 985' FNL, 512' FEL
Bottom Hole: 406' FNL, 457' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 922-30A1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

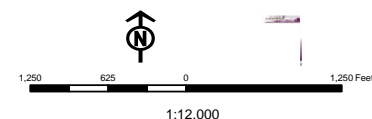
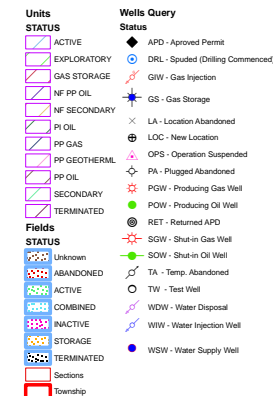
KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

RECEIVED: June 14, 2011

Map Produced by Diana Mason



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

June 20, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 922-30A PAD

43-047-51666	NBU 922-29D1BS	Sec 30 T09S R22E 0990 FNL 0492 FEL
	BHL Sec 29 T09S R22E 0088 FNL 0925 FWL	

43-047-51667	NBU 922-30A4BS	Sec 30 T09S R22E 0987 FNL 0502 FEL
	BHL Sec 30 T09S R22E 0732 FNL 0457 FEL	

43-047-51668	NBU 922-30A1CS	Sec 30 T09S R22E 0985 FNL 0512 FEL
	BHL Sec 30 T09S R22E 0406 FNL 0457 FEL	

43-047-51670	NBU 922-30A1BS	Sec 30 T09S R22E 0982 FNL 0521 FEL
	BHL Sec 30 T09S R22E 0083 FNL 0469 FEL	

NBU 922-30B PAD

43-047-51669	NBU 922-30B1CS	Sec 30 T09S R22E 1135 FNL 2047 FEL
	BHL Sec 30 T09S R22E 0570 FNL 1682 FEL	

43-047-51671	NBU 922-30B1BS	Sec 30 T09S R22E 1130 FNL 2056 FEL
	BHL Sec 30 T09S R22E 0251 FNL 1682 FEL	

43-047-51673	NBU 922-30B4BS	Sec 30 T09S R22E 1141 FNL 2039 FEL
	BHL Sec 30 T09S R22E 0896 FNL 1681 FEL	

43-047-51674	NBU 922-30B4CS	Sec 30 T09S R22E 1146 FNL 2030 FEL
	BHL Sec 30 T09S R22E 1222 FNL 1680 FEL	

NBU 922-30C PAD

43-047-51672	NBU 922-30C1BS	Sec 30 T09S R22E 0684 FNL 2012 FWL
	BHL Sec 30 T09S R22E 0083 FNL 1991 FWL	

RECEIVED: June 21, 2011

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 922-30C PAD

43-047-51675	NBU 922-30C1CS	Sec 30 T09S R22E 0680 FNL 1982 FWL
	BHL	Sec 30 T09S R22E 0405 FNL 1988 FWL

43-047-51676	NBU 922-30C4BS	Sec 30 T09S R22E 0681 FNL 1992 FWL
	BHL	Sec 30 T09S R22E 0730 FNL 1987 FWL

43-047-51677	NBU 922-30C4CS	Sec 30 T09S R22E 0683 FNL 2002 FWL
	BHL	Sec 30 T09S R22E 1056 FNL 1986 FWL

NBU 922-30D PAD

43-047-51678	NBU 922-30D1BS	Sec 30 T09S R22E 1236 FNL 0616 FWL
	BHL	Sec 30 T09S R22E 0240 FNL 0771 FWL

43-047-51681	NBU 922-30D1CS	Sec 30 T09S R22E 1243 FNL 0635 FWL
	BHL	Sec 30 T09S R22E 0569 FNL 0762 FWL

43-047-51683	NBU 922-30F1BS	Sec 30 T09S R22E 1249 FNL 0654 FWL
	BHL	Sec 30 T09S R22E 1238 FNL 1154 FWL

NBU 922-30F PAD

43-047-51679	NBU 922-30F1CS	Sec 30 T09S R22E 2144 FNL 1622 FWL
	BHL	Sec 30 T09S R22E 1706 FNL 1984 FWL

43-047-51680	NBU 922-30F4BS	Sec 30 T09S R22E 2149 FNL 1614 FWL
	BHL	Sec 30 T09S R22E 2032 FNL 1983 FWL

43-047-51682	NBU 922-30F4CS	Sec 30 T09S R22E 2154 FNL 1605 FWL
	BHL	Sec 30 T09S R22E 2357 FNL 1982 FWL

43-047-51684	NBU 922-30K1BS	Sec 30 T09S R22E 2159 FNL 1596 FWL
	BHL	Sec 30 T09S R22E 2523 FSL 1980 FWL

43-047-51685	NBU 922-30K1CS	Sec 30 T09S R22E 2164 FNL 1588 FWL
	BHL	Sec 30 T09S R22E 2198 FSL 1979 FWL

This office has no objection to permitting the wells at this time.

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:6-20-11

RECEIVED: June 21, 2011

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/14/2011**API NO. ASSIGNED:** 43047516680000**WELL NAME:** NBU 922-30A1CS**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)**PHONE NUMBER:** 720 929-6356**CONTACT:** Laura Abrams**PROPOSED LOCATION:** NENE 30 090S 220E**Permit Tech Review:** ☒**SURFACE:** 0985 FNL 0512 FEL**Engineering Review:** ☒**BOTTOM:** 0406 FNL 0457 FEL**Geology Review:** ☒**COUNTY:** UINTAH**LATITUDE:** 40.01160**LONGITUDE:** -109.47437**UTM SURF EASTINGS:** 630212.00**NORTHINGS:** 4429949.00**FIELD NAME:** NATURAL BUTTES**LEASE TYPE:** 1 - Federal**LEASE NUMBER:** UTU463**PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE**SURFACE OWNER:** 1 - Federal**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**☒ **PLAT**☒ **Bond:** FEDERAL - WYB000291☐ **Potash**☒ **Oil Shale 190-5**☐ **Oil Shale 190-3**☐ **Oil Shale 190-13**☒ **Water Permit:** 43-8496☐ **RDCC Review:**☐ **Fee Surface Agreement**☐ **Intent to Commingle****Commingle Approved****LOCATION AND SITING:**☐ **R649-2-3.****Unit:** NATURAL BUTTES☐ **R649-3-2. General**☐ **R649-3-3. Exception**☒ **Drilling Unit****Board Cause No:** Cause 173-14**Effective Date:** 12/2/1999**Siting:** Suspends General Siting☒ **R649-3-11. Directional Drill****Comments:** Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason

RECEIVED: August 17, 2011



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-30A1CS
API Well Number: 43047516680000
Lease Number: UTU463
Surface Owner: FEDERAL
Approval Date: 8/17/2011

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read 'John Rogers', with a stylized flourish at the end.

For John Rogers
Associate Director, Oil & Gas

RECEIVED

Form 3160-3
(August 2007)

JUN 16 2011

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM VERNAL, UTAH

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU463
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL&GAS ONSHORE		7. If Unit or CA Agreement, Name and No. UTU63047A
Contact: LAURA ABRAMS Email: Laura.Abrams@anadarko.com		8. Lease Name and Well No. NBU 922-30A1CS
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6356 Fx: 720-929-7356	9. API Well No. 43-647-51668
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE 985FNL 512FEL 40.011571 N Lat, 109.475120 W Lon At proposed prod. zone NENE 406FNL 457FEL 40.013158 N Lat, 109.474926 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 42.2 MILES SOUTH OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 30 T9S R22E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 406'	16. No. of Acres in Lease 551.00	12. County or Parish UINTAH COUNTY
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 584'	19. Proposed Depth 9603 MD 9542 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4925 GL	22. Approximate date work will start 12/01/2011	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) LAURA ABRAMS Ph: 720-929-6356	Date 06/09/2011
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date DEC 15 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #110243 verified by the BLM Well Information System
For KERR MCGEE OIL&GAS ONSHORE, Vernal, Utah

NOTICE OF APPROVAL

DEC 27 2011

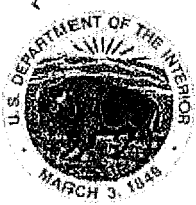
UDOGM

DIV. OF OIL, GAS & MINING

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

11SXS0407AE

NUS-03/29/2011



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	KERR-MCGEE OIL & GAS ONSHORE	Location:	NENE, SEC. 30, T9S, R22E SLM
Well No:	NBU 922-30A1CS	Lease No:	UTU-463
API No:	43-047-51668	Agreement:	NATURAL BUTTES UNIT

BLM OFFICE NUMBER: (435) 781-4400

Forest Service Number: (435) 790-3924

BLM OFFICE FAX NO.: (435) 781-3420

Forest Service Fax No.: (435) 781-5215

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Forest Service Environmental Scientist Sherry Fountain)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Forest Service Environmental Scientist Sherry Fountain)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

General Conditions of Approval

- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project.
- The operator will follow the Green River District Reclamation Guidelines for Reclamation.

Mitigation for Invasive Weeds

- All vehicles and equipment would be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas would be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds would be controlled throughout the area of project disturbance.
- Noxious weeds would be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan would be submitted for each project.
- A pesticide use permit (PUP) would be obtained for the project, if applicable.

Mitigation for Paleontology

- A permitted paleontologist is to be present for monitor purposes during all surface disturbing activities: examples include the following building of the well pad, access road, and pipelines

Mitigation Measures for Colorado River Fish Species:

- The best method to avoid entrapment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (see above); and
 - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region
152 East 100 North, Vernal, UT 84078
Phone: (435) 781-9453

Mitigation for Migratory birds.

- Construction and drilling is not allowed from January 1 – August 31 to minimize impacts during Golden Eagle and Red-tailed hawk nesting

If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or

qualified biologist should be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be ~~recommended~~ or granted by the BLM biologist. *Authorized Officer.*

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

Site Specific Drilling Plan COA's:

- Gamma ray Log shall be run from Total Depth to Surface.

Variances Granted:

Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40' from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- FIT test. Variance granted due to well-known geology and problems that can occur with the FIT test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30A1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0512 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047516680000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/19/2012	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON DATE 6/19/2012 AT 12:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 20, 2012		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 6/20/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
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NAME (PLEASE PRINT) Cara Mahler		PHONE NUMBER 720 929-6029																														
SIGNATURE N/A		TITLE Regulatory Analyst I																														
DATE 5/30/2012		Accepted by the Utah Division of Oil, Gas and Mining Date: June 26, 2012 By: <u>Derek Quist</u>																														

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-30A1CS**

Surface:	985 FNL / 512 FEL	NENE
BHL:	406 FNL / 457 FEL	NENE

Section 30 T9S R22E

Uintah County, Utah
Mineral Lease: UTU 0463**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,443'	
Birds Nest	1,765'	Water
Mahogany	2,142'	Water
Wasatch	4,724'	Gas
Mesaverde	7,332'	Gas
Sego	9,542'	Gas
TVD	9,542'	
TD	9,604'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9542' TVD, approximately equals
6,107 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,994 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-

(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	May 30, 2012		
WELL NAME	NBU 922-30A1CS				TD	9,542'	TVD	9,604' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4923.5
SURFACE LOCATION	NENE	985 FNL	512 FEL	Sec 30	T 9S	R 22E		
	Latitude:	40.011571	Longitude:	-109.475120		NAD 83		
BTM HOLE LOCATION	NENE	406 FNL	457 FEL	Sec 30	T 9S	R 22E		
	Latitude:	40.013158	Longitude:	-109.474926		NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.							

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p> <p>Green River @ 1,443'</p> <p>Top of Birds Nest @ 1,765'</p> <p>Mahogany @ 2,142'</p> <p>Preset f/ GL @ 2,590' TVD</p> <p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.</p> <p>Wasatch @ 4,724'</p> <p>Mud logging program TBD</p> <p>Cased hole logging program from TD - surf csg</p> <p>Mverde @ 7,332' TVD</p> <p>Sego @ 9,542' TVD</p> <p>Max anticipated Mud required 12.5 ppg</p> <p>TD @ 9,604' MD</p>					
			7-7/8"	4-1/2" 11.6# I-80 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.5 ppg

RECEIVED: May. 30, 2012

NBU 922-30A1CS

Drilling Program
6 of 7

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	LTC COLLAPSE	DQX TENSION
CONDUCTOR	14"	0-40'				3,390	1,880 348,000	N/A
SURFACE	8-5/8"	0 to 2,590	28.00	IJ-55	LTC	2.09	1.55 5.48	N/A
						7,780	6,350 223,000	267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.02	2.96
						7,780	6,350 223,000	267,035
	4-1/2"	5,000 to 9,604'	11.60	I-80	LTC	1.11	1.02 5.16	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,090'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,224'	Premium Lite II +0.25 pps	330	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,380'	50/50 Poz/G + 10% salt + 2% gel	1,270	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

DATE:

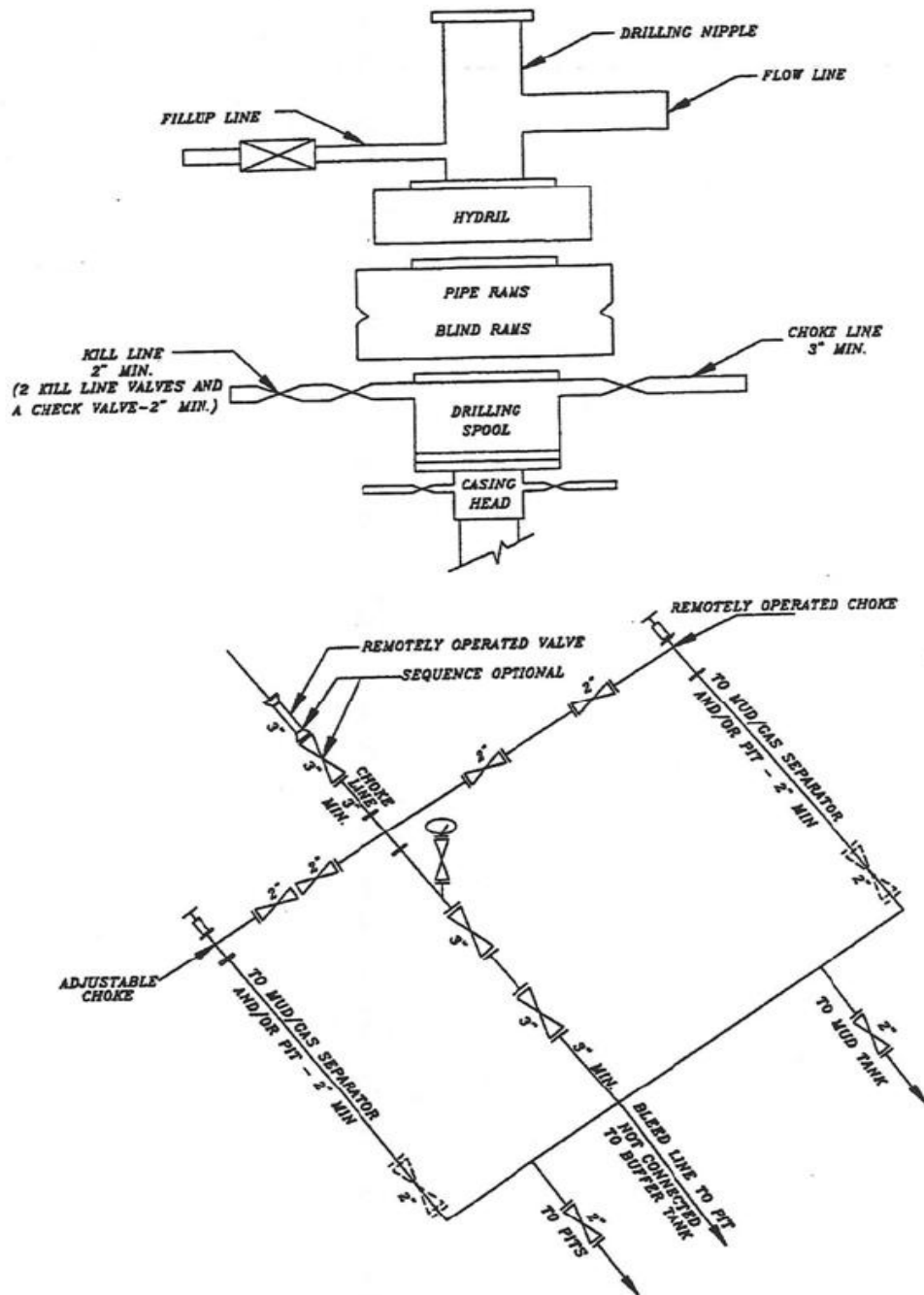
DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

RECEIVED: May. 30, 2012

EXHIBIT A
NBU 922-30A1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number NBU 922-30A1CS
Qtr/Qtr NENE Section 30 Township 9S Range 22E
Lease Serial Number UTU463
API Number 4304751668

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 06/19/2012 09:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 06/26/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6029

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751666	NBU 922-29D1BS		NENE	30	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	6/19/2012			6/29/2012	
Comments: MIRU BUCKET RIG. WSMVD SPUD WELL LOCATION ON 6/19/2012 AT 7:30 HRS. BHL: S29 hwnw							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751667	NBU 922-30A4BS		NENE	30	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	6/19/2012			6/29/2012	
Comments: MIRU BUCKET RIG. WSMVD SPUD WELL LOCATION ON 6/19/2012 AT 10:00 HRS. BHL: none							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751668	NBU 922-30A1CS		NENE	30	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	6/19/2012			6/29/2012	
Comments: MIRU BUCKET RIG. WSMVD SPUD WELL LOCATION ON 6/19/2012 AT 12:00 HRS. BHL: none							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

JUN 21 2012

Div. of Oil, Gas & Mining

Cara Mahler

Name (Please Print)

Signature


REGULATORY ANALYST

Title

6/20/2012

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30A1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0512 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047516680000
PHONE NUMBER: 720 929-6516		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/14/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div> <div style="text-align: right; margin-top: 10px;"> OTHER: <input style="width: 150px;" type="text"/> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON 7/14/2012. DRILLED SURFACE HOLE TO 2876'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 20, 2012		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 7/18/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30A1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0512 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047516680000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/25/2012	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: ACTS PIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. FINISHED DRILLING TO 9615' ON 8/23/2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED SST 54 RIG ON 8/25/2012. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.		
Accepted by the Utah Division of Oil, Gas and Mining		Date: September 20, 2012 By: 
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 8/30/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30A1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0512 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047516680000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/2/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 9,615.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 02, 2012		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 10/2/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30A1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0512 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047516680000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div> <div style="text-align: right; margin-top: 10px;"> OTHER: <input style="width: 100px;" type="text"/> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 9,615.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 05, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/5/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-30A1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0512 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047516680000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/29/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>The subject well was placed on production on 11/29/2012. The Chronological Well History will be submitted with the well completion report.</p> </div> <div style="width: 35%; text-align: center;"> <p>Accepted by the Utah Division of Oil, Gas and Mining</p> <p>FOR RECORD ONLY</p> <p>December 05, 2012</p> </div> </div>		
NAME (PLEASE PRINT) Lindsey Frazier		PHONE NUMBER 720 929-6857
SIGNATURE N/A		TITLE Regulatory Analyst II
DATE 12/3/2012		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. UTU463		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE			7. Unit or CA Agreement Name and No. UTU63047A		
3. Address PO BOX 173779 DENVER, CO 80217			8. Lease Name and Well No. NBU 922-30A1CS		
3a. Phone No. (include area code) Ph: 720-929-6857			9. API Well No. 43-047-51668		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE 985FNL 512FEL 40.011571 N Lat, 109.475120 W Lon At top prod interval reported below NENE 388FNL 464FEL At total depth NENE 424FNL 455FEL <i>BHL by HSM</i>			10. Field and Pool, or Exploratory NATURAL BUTTES		
			11. Sec., T., R., M., or Block and Survey or Area Sec 30 T9S R22E Mer SLB		
			12. County or Parish UINTAH		13. State UT
14. Date Spudded 06/19/2012		15. Date T.D. Reached 08/23/2012		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/29/2012	
17. Elevations (DF, KB, RT, GL)* 4943 KB					
18. Total Depth: MD 9615 TVD 9563		19. Plug Back T.D.: MD 9554 TVD 9501		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/GR/CCL/TEMP				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2770		650		0	
7.875	4.500 I-80	11.6	0	9601		1485		2266	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8683							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6400	7349	6400 TO 7349	0.360	75	OPEN
B) MESAVERDE	7401	9109	7401 TO 9109	0.360	144	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6400 TO 9109	PUMP 9,361 BBLS SLICK H2O AND 218,534 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/29/2012	11/30/2012	24	→	0.0	1907.0	343.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI	2430.0	→	0	1907	343		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #167910 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1601 1804 2180 4787 7398

32. Additional remarks (include plugging procedure):

The first 210 ft. of the surface hole was drilled with a 12 ? in. bit. The remainder of surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 4945 ft; LTC csg was run from 4945 ft. to 9,601 ft. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #167910 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (please print) LINDSEY A FRAZIERTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 12/20/2012

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Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/13/2012	18:00 - 0:00	6.00	MIRU	21	D	Z		*****JD FIELD SERVICE FORKLIFT BROKE DOWN. WAITED ON NEW FORKLIFT TO BE TRUCKED OUT
7/14/2012	0:00 - 0:30	0.50	MIRU	21	D	Z		WAITING ON JD FIELD SERVICE FORKLIFT
	0:30 - 1:30	1.00	MIRU	01	B	P		NBU 922-30A1CS (WELL 3 OF 4) INSTALL
								DIVERTOR HEAD AND BLUEY LINE. RIG UP NOV.
								SPOT IN RIG. SPOT IN CATWALK AND PIPE
								RACKS. RIG UP PUMP. PRIME PUMP. INSPECT RIG.
								SAFETY MEETING
	1:30 - 2:00	0.50	DRLSUR	06	A	P		PICK UP #1 BHA
	2:00 - 3:00	1.00	DRLSUR	02	D	P		DRL F/44' - T/210' (166' @ 166' ROP)
								W.O.B. 5 -15K
								RPM 45 POWERHEAD
								UP/DWN/ROT 22/20/22
								PSI ON/OFF 600/400
								M.W. 8.4# VIS 27
								396 GPM PUMP RATE / NO AIR
								NOV-ONLINE
	3:00 - 4:30	1.50	DRLSUR	06	A	P		TOOH WITH #1 BHA / TIH WITH #2 BHA
	4:30 - 5:00	0.50	DRLSUR	08	A	Z		CHANGE OUT WINCH LINE
	5:00 - 12:00	7.00	DRLSUR	02	D	P		DRL F/210' - T/1130' (920'@ 131.4' ROP)
								W.O.B. 18 - 20K
								RPM 45 POWERHEAD
								UP/DWN/ROT 65/50/55 10K DRAG
								PSI ON/OFF 1130/980
								M.W. 8.5# VIS 27
								396 GPM PUMP RATE / NO AIR
								NOV-ONLINE
	12:00 - 16:00	4.00	DRLSUR	02	D	P		DRL F/1130' - T/1490' (360'@ 90' ROP) W.O.B. 18 - 20K
								RPM 45 POWERHEAD
								UP/DWN/ROT 67/52/57 10K DRAG
								PSI ON/OFF 1300/1100
								M.W. 8.5# VIS 27
								396 GPM PUMP RATE / NO AIR
								NOV-ONLINE
								.35' HIGH AND .13 RIGHT OF LINE
								232' / 24.12% SLIDE
	16:00 - 0:00	8.00	DRLSUR	02	D	P		DRL F/1490' - T/2180' (690'@ 86.3' ROP) W.O.B. 18 - 20K
								RPM 45 POWERHEAD
								UP/DWN/ROT 82/59/68 14K DRAG
								PSI ON/OFF 1510/1280
								M.W. 8.5# VIS27
								396 GPM PUMP RATE / NO AIR
								NOV-ONLINE
								.31 HIGH AND 1.77' LEFT OF LINE
								295' / 15.83% SLIDE
7/15/2012	0:00 - 1:00	1.00	DRLSUR	02	C	P		DRL F/2180' - T/2270' (90' @ 90' ROP)
	1:00 - 4:30	3.50	DRLSUR	08	A	Z		*****FIX MAIN HYDRAULIC HOSE FOR RIG

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:30 - 12:00	7.50	DRLSUR	02	D	P		DRL F/2270' - T/2786' (516' @ 68.8' ROP) W.O.B. 18 - 20K RPM 45 POWERHEAD UP/DWN/ROT 90/65/75 PSI ON/OFF 1500/1300 M.W. 8.5# VIS 27 396 GPM PUMP RATE /NO AIR NOV-ONLINE 14.8' LOW AND 12.49' LEFT OF LINE 578' / 27.98% SLIDE
	12:00 - 14:00	2.00	DRLSUR	05	C	P		CIRCULATE FOR CASING
	14:00 - 17:30	3.50	DRLSUR	06	A	P		LDDS,BHA & DIRECTIONAL TOOLS
	17:30 - 18:30	1.00	DRLSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. MOVE CSG INTO POSITION TO P/U.
	18:30 - 20:30	2.00	DRLSUR	12	C	P		TIH 62 JOINTS 8 5/8", 28#, J55 CASING SHOE IS AT 2751.3' BAFFLE IS AT 2706.9'
	20:30 - 21:00	0.50	DRLSUR	05	D	P		PUMP CAPACITY OF CASING
	21:00 - 21:30	0.50	DRLSUR	12	B	P		HOLD SAFETY MEETING PUMP ON CASING RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, RIG UP CEMENT TRUCKS, AND CEMENT HEAD.
	21:30 - 23:00	1.50	CSGSUR	12	E	P		MAKE UP HEAD AND LOAD PLUG. PRESSURE TEST LINES TO 2000PSI. PUMP 40BBLs AHEAD 8.4# H2O. PUMP 20BBLs 8.4# GEL H2O AHEAD, PUMP 300 SX (148.5BBLs) 12# 2.78 YIELD CEMENT. PUMP 200 SX (41 BBLs) OF 15.8 1.15 YIELD TAIL (2% CALC, 1/4#/SK OF FLOCECE) DROP PLUG ON THE FLY AND DISPLACE WITH 169BBLs OF 8.4# H2O. FINAL LIFT PRESSURE WAS 780PSI, BUMP PRESSURE WAS 1030PSI HELD FOR 5 MINS. FLOAT HELD, RETURNS THRU OUT JOB. 25BBLs LEAD CEMENT BACK TO SURFACE. PUMP 125 SK 15.8 (25.6BBLs) CEMENT, W/4% CALCIUM DOWN 1". CEMENT FELL BACK APROX. 10' RELEASE RIG @ 23:00
8/19/2012	7:30 - 8:00	0.50	MIRU	01	C	P		SKID RIG TO NBU 922-30A1CS(WELL 4 OF 4)
	8:00 - 10:00	2.00	MIRU	14	A	P		NIPLE UP B.O.P., RIG UP CAMERON QUICK CONNECT, FLAIR LINES, CHOKE LINE, KILL LINE, FLOW LINE.
	10:00 - 15:00	5.00	MIRU	15	A	P		HOLD SAFETY MEETING WITH A-1 TESTING. RIG UP TESTER AND TEST DART VALVE, LOWER TOP DRIVE VALVE, I-BOP VALVE, TIW VALVE PIPE RAMS AND INSIDE BOP VALVES TO 5000 PSI FOR 10 MIN AND 250 LOW FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST BLIND RAMS, HCR VALVE, OUTSIDE KILL LINE VALVE, CHECK VALVE, CHOKE MANIFOLD TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CASING TO 1500 PSI FOR 30 MIN. RIG DOWN TESTER
	15:00 - 16:00	1.00	MIRU	09	A	P		(MOVED OVER 500 BBLs OF DRILL WATER AND DE WATERING UNITS) SLIP AND CUT 56' OF DRILLING LINE.

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 16:30	0.50	MIRU	14	B	P		PERFORMED PRE SPUD INSPECTION. PERFORM IADC ROTARY RIG INSPECTION. REVIEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVIEW OF WELLBORE, PRIOR TO SPUD.
	16:30 - 19:00	2.50	MIRU	06	A	P		INSTALL WEAR BUSHING. PREPARED BHA FOR TRIP. PICK UP HUNTING 1.50 BH .16 RPG MOTOR(SN-6268). MADE UP SMITH MDI 616 BIT W/ 6-15'S (SN JF8116). SCRIBED MOTOR. PICK UP DOUBLE PIN, NON MAG TOOL CARRIER AND EM SUB. ORIENT TOOLS, PICK UP HEAVY WEIGHT DRILL PIPE. INSTALL ROTATING RUBBER TRIP IN TO 2645' TAG CEMENT @ 2645'
	19:00 - 20:00	1.00	DRLPRO	02	F	P		SPUD 08/19/2012 19:00 DRILL CEMENT AND FLOAT EQUIPMENT 2645'-2770'. (FLOAT SHOE @ 2770'.) DRILLED CEMENT WITH 15K ON BIT, 450 GALLONS PER MINUTE, 50 ROTATION PER MINUTE.
	20:00 - 0:00	4.00	DRLPRC	02	D	P		DRILL SLIDE 2801'- 3173' (372', 93'/HR) WEIGHT ON BIT 15-22K. AVERAGE WEIGHT ON BIT 18K. ROTARY RPM 65. MUD MOTOR RPM 87. STROKES PER MINUTE 150 GALLONS PER MINUTE 544. ON/OFF PSI 1670/1295. DIFFERENTIAL 375. TORQUE ON/OFF 6522/5435. STRING WEIGHT UP/DOWN/ROT 115/90/100. DRAG 15K. DRILL OUT OF THE SHOE @ 10.74 INC. CURRENTLY @ 2373 ' @ 7.18 INC. 10' SOUTH 5' EAST OF LINE. SLIDE 50' AT 80'/HR. SLIDE 13% ROTATE 87%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 21 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 20 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR) NO FLARE. (BOP DRILL 1.5 MINUTES)

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW		Spud Date: 7/14/2012	
Project: UTAH-UINTAH	Site: NBU 922-30A PAD		Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING	Start Date: 6/25/2012		End Date: 8/25/2012
Active Datum: RKB @4,943.00usft (above Mean Sea Level)		UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/20/2012	0:00 - 6:00	6.00	DRLPRC	02	D	P		<p>DRILL SLIDE 3173'- 3916' (743', 123'/HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 18K. ROTARY RPM 65. MUD MOTOR RPM 87. STROKES PER MINUTE 150 GALLONS PER MINUTE 544. ON/OFF PSI 1670/1295. DIFFERENTIAL 375. TORQUE ON/OFF 6522/5435. STRING WEIGHT UP/DOWN/ROT 115/90/100. DRAG 15K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 3916' @ 2.75 INC. 39.08 AZMITH 7' SOUTH 5' WEST OF LINE. SLIDE 68' AT 80'/HR. SLIDE 8% ROTATE 92%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 28.) USED 45 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY NOT HOLDING ANY PRESSURE DURING CONNECTIONS OR DRILLING OPERATIONS WITH MI SWACO. NO FLARE. (BOP DRILL 1.5 MINUTES)</p>
	6:00 - 15:00	9.00	DRLPRC	02	D	P		<p>NO PRESSURE BUILD UP ON PREVIOUS WELL GUAGE CURRENTLY READING 0 DRILL SLIDE 3916'-5113' (1197', 133'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 87. STROKES PER MINUTE 150 GALLONS PER MINUTE 544. ON/OFF PSI 1730/1280. DIFFERENTIAL 450. TORQUE ON/OFF 13710/4297. STRING WEIGHT UP/DOWN/ROT 180/115/135. DRAG 45K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 5113' @ .75 INC. 2.45 AZMITH 0.5' NORTH 20' WEST OF LINE. SLIDE 113' AT 80'/HR. SLIDE 9% ROTATE 91%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 28.) USED 72 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 45 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 175 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. NO FLARE. (BOP DRILL 1.5 MINUTES)</p>

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 15:30	0.50	DRLPRC	07	A	P		RIG SERVICE, SERVICED TOP DRIVE, GREASED SWIVEL PACKING, CHECKED THE EATON BRAKE, SERVICED THE CROWN
	15:30 - 0:00	8.50	DRLPRC	02	D	P		<p>DRILL SLIDE 5113'-5876' (763', 89'/HR)</p> <p>WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K.</p> <p>ROTARY RPM 65. MUD MOTOR RPM 87.</p> <p>STROKES PER MINUTE 150 GALLONS PER MINUTE 544.</p> <p>ON/OFF PSI 1730/1280. DIFFERENTIAL 450.</p> <p>TORQUE ON/OFF 13710/4297.</p> <p>STRING WEIGHT UP/DOWN/ROT 180/125/145. DRAG 35K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH</p> <p>CURRENTLY @ 5876' @ 1.63 INC. 356.7 AZMITH 10' SOUTH 3' WEST OF LINE.</p> <p>SLIDE 72' AT 75'/HR. SLIDE 9% ROTATE 91%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 28.)</p> <p>USED 45 BBLS DRILL WATER FOR HOLE VOLUME.</p> <p>LOSS 45 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 200 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO.</p> <p>NO FLARE.</p>

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Well: NBU 922-30A1CS YELLOW

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UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/21/2012	0:00 - 6:00	6.00	DRLPRC	02	D	P		<p>DRILL SLIDE 5876'-6314' (438', 73'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 60. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1414/1036. DIFFERENTIAL 378. TORQUE ON/OFF 11855/9500. STRING WEIGHT UP/DOWN/ROT 180/125/145. DRAG 35K.</p> <p>#1 GENERATOR DOWN WITH BAD RADIATOR.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 6314' @ 1.50 INC. 122.95 AZMITH 3' SOUTH 3' WEST OF LINE. SLIDE 32' AT 75'/HR. SLIDE 10% ROTATE 90%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 28.) USED 26 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 200 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 5' FLARE FOR 6 HOURS-9,919 SCF.</p>
	6:00 - 15:00	9.00	DRLPRC	02	D	P		<p>DRILL SLIDE 6314'-6924' (610', 67'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 60. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1383/1026. DIFFERENTIAL 357. TORQUE ON/OFF 14138/10623. STRING WEIGHT UP/DOWN/ROT 195/145/170. DRAG 25K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 6924' @ 0.75 INC. 337.70 AZMITH 10.9' NORTH 2.3' WEST OF LINE. SLIDE 44' AT 50'/HR. SLIDE 8% ROTATE 92%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 28.) USED 36 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 45 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 200 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 5' FLARE FOR 9 HOURS-14,878 SCF.</p>

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UVM: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 15:30	0.50	DRLPRC	07	A	P		RIG SERVICE, SERVICED TOP DRIVE, GREASED SWIVEL PACKING, CHECKED THE EATON BRAKE, SERVICED THE CROWN
	15:30 - 0:00	8.50	DRLPRC	02	D	P		DRILL SLIDE 6924'-7398' (474', 55'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 60. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1383/1026. DIFFERENTIAL 357. TORQUE ON/OFF 14138/10623. STRING WEIGHT UP/DOWN/ROT 195/145/170. DRAG 25K. VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 7398' @ 1.13 INC. 144.20 AZMITH 10' NORTH 4' WEST OF LINE. SLIDE 52' AT 30'/HR. SLIDE 15% ROTATE 85%. RUNNING 2 CENTRIFUGES AND DE WATERING. (WT 8.5 VIS 28.) USED 27 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 45 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR) CURRENTLY HOLDING 200 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 5' FLARE FOR 8.5 HOURS-14,051 SCF. DRILL SLIDE 7398'-7611' (213', 35'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 60. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1383/1026. DIFFERENTIAL 357. TORQUE ON/OFF 14138/10623. STRING WEIGHT UP/DOWN/ROT 195/145/170. DRAG 25K. VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 7611' @ .69 INC. 142.58 AZMITH 10.5' NORTH 1' WEST OF LINE. SLIDE 56' AT 20'/HR. SLIDE 40% ROTATE 60%. RUNNING 2 CENTRIFUGES AND DE WATERING. (WT 8.5 VIS 28.) USED 13 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR) CURRENTLY HOLDING 250 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 5' FLARE FOR 6 HOURS-9,919 SCF.
8/22/2012	0:00 - 6:00	6.00	DRLPRC	02	D	P		

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 13:30	7.50	DRLPRC	02	D	P		<p>DRILL SLIDE 7611'-7968' (357', 47'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 60. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1599/1282. DIFFERENTIAL 317. TORQUE ON/OFF 16544/9826. STRING WEIGHT UP/DOWN/ROT 215/150/180. DRAG 35K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 7968' @ .81 INC. 71.08 AZMITH 11.7' NORTH 1' EAST OF LINE. SLIDE 32' AT 20'/HR. SLIDE 15% ROTATE 85%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.8 VIS 35.) USED 22 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 35 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 250 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 5' FLARE FOR 7.5 HOURS-12,398 SCF. RIG SERVICE, SERVICED TOP DRIVE, GREASED SWIVEL PACKING, CHECKED THE EATON BRAKE, SERVICED THE CROWN</p>
	13:30 - 14:00	0.50	DRLPRC	07	A	P		<p>DRILL SLIDE 7968'-8540' (572', 57'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 60. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1663/1310. DIFFERENTIAL 353. TORQUE ON/OFF 16819/13152. STRING WEIGHT UP/DOWN/ROT 240/150/190. DRAG 50K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 8540' @ 1.13 INC. 211.70 AZMITH 10.3' NORTH 4.8' EAST OF LINE. SLIDE 65' AT 30'/HR. SLIDE 11% ROTATE 89%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.8 VIS 35.) USED 22 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 35 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 250 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 10' FLARE FOR 10 HOURS-71,348 SCF.</p>
	14:00 - 0:00	10.00	DRLPRC	02	D	P		<p>DRILL SLIDE 7968'-8540' (572', 57'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 60. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1663/1310. DIFFERENTIAL 353. TORQUE ON/OFF 16819/13152. STRING WEIGHT UP/DOWN/ROT 240/150/190. DRAG 50K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 8540' @ 1.13 INC. 211.70 AZMITH 10.3' NORTH 4.8' EAST OF LINE. SLIDE 65' AT 30'/HR. SLIDE 11% ROTATE 89%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.8 VIS 35.) USED 22 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 35 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 250 PSI. DURING CONNECTIONS AND 0 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 10' FLARE FOR 10 HOURS-71,348 SCF.</p>

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/23/2012	0:00 - 6:00	6.00	DRLPRC	02	D	P		<p>DRILL SLIDE 8540'-8955' (415', 69'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1764/1421. DIFFERENTIAL 343. TORQUE ON/OFF 17978/13261. STRING WEIGHT UP/DOWN/ROT 240/150/190. DRAG 50K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 8955' @ 1.25 INC. 206.32 AZMITH 5.7' NORTH 1.6' EAST OF LINE. SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.8 VIS 35.) USED 25 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 350 PSI. DURING CONNECTIONS AND 100 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 20' FLARE FOR 6 HOURS-184,763 SCF.</p>
	6:00 - 14:00	8.00	DRLPRC	02	D	P		<p>DRILL SLIDE 8955'-9400' (445', 55'/HR) WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 55. MUD MOTOR RPM 83. STROKES PER MINUTE 110 GALLONS PER MINUTE 399. ON/OFF PSI 1810/1440. DIFFERENTIAL 370. TORQUE ON/OFF 17428/14558. STRING WEIGHT UP/DOWN/ROT 250/170/200. DRAG 50K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 9400' @ 2.0 INC. 161.95 AZMITH 9.8' SOUTH 0.36' WEST OF LINE. SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.8 VIS 35.) USED 27 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 40 BBLS DRILL WATER INTO FORMATION. (LOSING 5 BBLS HR)</p> <p>CURRENTLY HOLDING 350 PSI. DURING CONNECTIONS AND 100 PSI. DURING DRILLING OPERATIONS WITH MI SWACO. 20' FLARE FOR 8 HOURS-246,351 SCF.</p>
	14:00 - 14:30	0.50	DRLPRC	07	A	P		<p>RIG SERVICE, SERVICED TOP DRIVE, GREASED SWIVEL PACKING, CHECKED THE EATON BRAKE, SERVICED THE CROWN</p>

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:30 - 18:00	3.50	DRLPRC	02	D	P		<p>DRILL SLIDE 9400'-9615' (215', 61'/HR) TD@ 08/23/2012 18:00</p> <p>WEIGHT ON BIT 18-24K. AVERAGE WEIGHT ON BIT 22K.</p> <p>ROTARY RPM 55. MUD MOTOR RPM 83.</p> <p>STROKES PER MINUTE 110 GALLONS PER MINUTE 399.</p> <p>ON/OFF PSI 1810/1440. DIFFERENTIAL 370.</p> <p>TORQUE ON/OFF 17428/14558.</p> <p>STRING WEIGHT UP/DOWN/ROT 250/170/200. DRAG 50K.</p> <p>VERTICAL @ 3812' 1.38 INC. 65.58 AZMITH CURRENTLY @ 9615' @ 1.63 INC. 156.70 AZMITH 17.6' SOUTH 2.3' EAST OF LINE.</p> <p>SLIDE 0' AT 0'/HR. SLIDE 0% ROTATE 100%.</p> <p>NOT RUNNING CENTRIFUGES OR DE WATERING.(WT 8.8 VIS 35.)</p> <p>USED 12 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 40 BBLS DRILL WATER INTO FORMATION. (LOSING 8.5 BBLS HR)</p> <p>CURRENTLY HOLDING 350 PSI. DURING CONNECTIONS AND 100 PSI. DURING DRILLING OPERATIONS WITH MI SWACO.</p> <p>20' FLARE FOR 1 HOURS-30,794 SCF.</p>
	18:00 - 21:00	3.00	DRLPRC	05	A	P		<p>CIRCULATE AND CONDITION MUD ADDING AGGRESIVE LCM TO THE SYSTEM @ 4% RAISED MUD WEIGHT TO 11.3# 42 VIS</p> <p>STABILIZE HOLE WITH NO LOSSES AND NO GAINS NO FLAIR</p>
	21:00 - 0:00	3.00	DRLPRC	06	E	P		<p>WIPER TRIP TO THE SURFACE CASING SHOE,(2770') TIGHT HOLE @ 5950', 5670', 5400'.</p> <p>HOLE TAKING PROPER FLUID, NO FLOW ON FLOW CHECKS</p> <p>MUD WEIGHT 11.3# 40 VIS. HOLE STABILIZED WITH NO LOSSES AND NO GAINS.</p>
8/24/2012	0:00 - 1:00	1.00	DRLPRC	06	E	P		<p>WIPER TRIP TO THE SURFACE CASING SHOE,(2770') TIGHT HOLE @ 5950', 5670', 5400'.</p> <p>HOLE TAKING PROPER FLUID, NO FLOW ON FLOW CHECKS</p> <p>MUD WEIGHT 11.3# 40 VIS.</p> <p>HOLE STABILIZED WITH NO LOSSES AND NO GAINS.</p>
	1:00 - 3:30	2.50	DRLPRC	06	E	P		<p>WIPER TRIP BACK TO BOTTOM(10,800') WASHED AND REAMED FROM 7722', 8350'. GOOD DISPLACEMENT THROUGH OUT TRIP, NO FLOW ON FLOW CHECKS</p> <p>MUD WEIGHT 11.3# 40 VIS.</p> <p>HOLE STABILIZED WITH NO LOSSES AND NO GAINS.</p>

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:30 - 6:30	3.00	DRLPRC	05	A	P		CIRCULATE AND CONDITION MUD ADDING AGGRESIVE LCM TO THE SYSTEM @ 4% MAINTAINED MUD WEIGHT @ 11.3# 40 VIS STABILIZE HOLE WITH NO LOSSES AND NO GAINS NO FLAIR
	6:30 - 16:00	9.50	EVALPR	06	E	P		TRIP OUT OF HOLE FOR CASING RUN. LAYING DOWN DRILL STRING. NO TIGHT HOLE. HOLE SEEPING DURING TRIP OUT. LOSS ANOTHER 20 BBLs ON TRIP OUT. NO FLOW ON FLOW CHECKS. PULL ROTATING RUBBER, AND HEAVY WEIGHT DRILL PIPE. LAY DOWN DIRECTIONAL TOOL'S, BREAK BIT, LAY DOWN MOTOR.
	16:00 - 16:30	0.50	EVALPR	06	D	P		FUNCTION BLIND /PIPE RAMS. PULL WEAR BUSHING. NO FLOW ON FLOW CHECKS, HOLE TOOK PROPER FILL ON TRIP OUT.
	16:30 - 23:00	6.50	EVALPR	12	C	P		HOLD SAFETY MEETING WITH KIMZY CASING. MAKE UP 4.5" L-80 LTC CLOSED FLOAT SHOE ON SHOE SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" L-80 CLOSED FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 JOINTS. INSTALL ROTATING HEAD @ 1800'.
								RUN A TOTAL OF 105 JOINTS OF 4.5" 11.6# I-80 LTC CASING. MAKE UP DQX CROSS OVER JOINT AND RIG UP TORQUE TURN, PERFORM DUMP TEST CONTINUED TO RUN 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN.
								RUN A TOTAL OF 113 JOINTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN. RUN CASING TO BOTTOM.
								TOTAL OF 105 JOINTS OF 4.5" 11.6# I-80 LTC CASING. TOTAL OF 113 JOINTS OF 4.5" 11.6# I-80 DQX CASING TOTAL OF 220 JOINTS OF CASING
								SET FLOAT SHOE @ 9600.85' KB. SET TOP OF FLOAT COLLAR @ 9553.79' KB. SET TOP OF MESA MARKER JT @ 7372.08' KB. SET TOP DQX TO LTC CROSS OVER JT @ 4923.23' KB.
	23:00 - 0:00	1.00	EVALPR	12	A	P		CIRCULATE AND CONDITION HOLE. MUD IN 11.3 VIS 39 / MUD OUT 11.3 VIS 40. MUD COMING OVER SHAKERS IS CLEAN. NO FLARE ON BOTTOMS UP.

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DEC 27 2012

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 6/25/2012

End Date: 8/25/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/25/2012	0:00 - 0:30	0.50	EVALPR	12	A	P		CIRCULATE AND CONDITION HOLE. MUD IN 11.4 VIS 38 / MUD OUT 11.3 VIS 40. MUD COMING OVER SHAKERS IS CLEAN. 10' FLARE ON BOTTOMS UP FOR 1/2 HOUR-3,567 SCF HOLD SAFETY MEETING WITH BAKER HUGHES CEMENTERERS. TIE BAKER HUGHES INTO CEMENT HEAD. PRESSURE TEST LINES TO 5000 PSI.
	0:30 - 4:00	3.50	CSG	12	E	P		PUMP 25 BBLS OF FRESH WATER. PUMP 183 BBLS (455 SX) OF 12.0# 2.26 YIELD 12.48 GAL/SK OF LEAD CEMENT. PUMP 240 BBLS (1030 SX) OF 14.3# 1.31 YIELD 5.90 GAL/SK POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG DISPLACE W/ 148.3 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. PUMPED DISPLACEMENT WITH 0 BBLS CEMENT TO SURFACE. 10 BBLS OF SPACER TO THE PIT. LIFT PSI OF 2550 @ 3 BBLS MINUTE. BUMP PLUG 3100 PSI. . PRESSURE HELD 5 MINUTES. FLOAT HELD. FLOW BACK 1.5 BBLS. ESTIMATED TOP OF CEMENT FOR LEAD SURFACE @ 15', ESTIMATED TOP OF CEMENT FOR TAIL 4000'. RIG DOWN CEMENTERERS. FLUSH STACK WITH FRESH WATER. REMOVE FLOW LINE. NIPPLE DOWN BOPE. HOLD SAFETY MEETING WITH CAMERON SLIP HAND. PULL LANDIN JOINT AND SET PACK OFF. LAY DOWN LANDING JOINT. NIPLE DOWN CAMERON QUICK FLANGE AND, MUD CROSS. CLEANED PITS AFTER CEMENT JOB. RELEASE RIG 08/25/2012 10:00.
	4:00 - 10:00	6.00	CSG	14	A	P		

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US ROCKIES REGION

1 General**1.1 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-30A1CS YELLOW	Wellbore No.	OH
Well Name	NBU 922-30A1CS	Wellbore Name	NBU 922-30A1CS
Report No.	1	Report Date	9/24/2012
Project	UTAH-UINTAH	Site	NBU 922-30A PAD
Rig Name/No.		Event	COMPLETION
Start Date	11/28/2012	End Date	11/29/2012
Spud Date	7/14/2012	Active Datum	RKB @4,943.00usft (above Mean Sea Level)
UWI	NE/NE/O/9/S/22/E/30/O/O/26/PM/N/985/E/O/512/O/O		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,400.0 (usft)-9,109.0 (usft)	Start Date/Time	11/8/2012 12:00AM
No. of Intervals	59	End Date/Time	11/8/2012 12:00AM
Total Shots	219	Net Perforation Interval	73.00 (usft)
Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals**2.1 Perforated Interval**

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/8/2012 12:00AM	WASATCH/			6,400.0	6,402.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/8/2012 12:00AM	WASATCH/			6,434.0	6,435.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,445.0	6,446.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,574.0	6,576.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,594.0	6,596.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,696.0	6,697.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,732.0	6,733.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,775.0	6,776.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,840.0	6,842.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,864.0	6,865.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,874.0	6,875.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,963.0	6,964.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,980.0	6,981.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			6,991.0	6,992.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			7,011.0	7,012.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			7,078.0	7,079.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			7,147.0	7,149.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			7,331.0	7,332.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	WASATCH/			7,347.0	7,349.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,401.0	7,402.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,416.0	7,418.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,444.0	7,446.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/8/2012 12:00AM	MESAVERDE/			7,526.0	7,527.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,574.0	7,575.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,621.0	7,622.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,664.0	7,665.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,685.0	7,686.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,721.0	7,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,777.0	7,778.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,787.0	7,788.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,840.0	7,841.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,973.0	7,975.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			7,997.0	7,999.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,266.0	8,267.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,436.0	8,438.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,456.0	8,457.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,479.0	8,480.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,496.0	8,498.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,537.0	8,538.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,548.0	8,549.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,559.0	8,560.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,570.0	8,571.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,624.0	8,625.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/8/2012 12:00AM	MESAVERDE/			8,643.0	8,644.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,655.0	8,656.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,687.0	8,688.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,718.0	8,719.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,735.0	8,736.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,756.0	8,757.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,786.0	8,787.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,817.0	8,818.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,853.0	8,854.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,873.0	8,874.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,905.0	8,906.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,931.0	8,932.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,967.0	8,968.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			8,987.0	8,988.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			9,062.0	9,063.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2012 12:00AM	MESAVERDE/			9,107.0	9,109.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 11/28/2012

End Date: 11/29/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/24/2012	13:00 - 13:30	0.50	FRAC	33		P		RU HOT OILER 300 PSI ON SURFACE 1ST PSI TEST TO 1500 PSI LOST 100 PSI 5MIN 2ND PSI TEST TO 1500 PSI LOST 50 PSI 5 MIN BLED PSI, OFF INSTALLED SURFACE POP OFF
9/25/2012	-							
11/1/2012	9:00 - 10:30	1.50	FRAC	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 6 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 31 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 84 PSI. NO COMMUNICATION, SLIGHT MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWFW
								ATTEMPT TO PUMP DOWN SURFACE NO SUCCESS
11/9/2012	7:00 - 10:00	3.00	FRAC	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
11/12/2012	6:30 - 6:45	0.25	FRAC	48				JSA-SAFETY MEETING
	6:45 - 7:00	0.25	FRAC	52	C	P		PRESSURE TEST SURFACE LINES 9400#, LOST 400# IN 15 MIN,

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 11/28/2012

End Date: 11/29/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/5/12/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:00	10.00	FRAC	36	B	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>(FRAC STG #1) WHP = 1324 #, BRK DN PERFS = 3817 #, @ 5 BPM, ISIP = 2364 #, FG = 0.70 , CALC PERF OPEN @ 52.1 BPM, @ 5993 # = 91 % , (19/21 HOLES OPEN ,) FINAL ISIP = 2788 #, FINAL FG = 0.75 , NET PRESSURE INCREASE = 424 #, MAX PSI = 6104 #, MAX RATE = 53.3 BPM, AVERAGE PSI = 5631 #, AVERAGE RATE = 52.2 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #2) P/U 4 1/2" HALLIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 – 120" PHASING, RIH SET CBP @ = 8884 ' , PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #2) WHP = 1948 #, BRK DN PERFS = 2692 #, @ = 5.1 BPM, ISIP = 2076 #, FG = 0.67, CALC PERF OPEN @ 50.8 BPM, @ 4997 PSI = 100 % , (21/21 HOLES OPEN) FINAL ISIP = 2506 #, FINAL FG = 0.72, NET PRESSURE INCREASE = 430 #, MAX PSI = 5558 #, MAX RATE = 51.4 BPM, AVERAGE PSI = 4874 #, AVERAGE RATE = 50.6 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #3) P/U 4 1/2" HALLIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 – 120" PHASING, RIH SET CBP @ 8698 ' , PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #3) WHP = 2257 #, BRK DN PERFS = 4544 #, @ 5.1 BPM, ISIP = 2382 #, F.G = 0.72 , CALC PER OPEN @ 50.7 BPM @ 4519 PSI = 100 % , (24/24 HOLES OPEN) FINAL ISIP = 2386 #, FINAL F.G. = 0.72 , NET PRESSURE INCREASE = 4 #, MAX PSI = 6604 #, MAX RATE = 51.8 BPM, AVERAGE PSI = 4461 #, AVERAGE RATE = 50.6 BPM X OVER TO WIRE LINE</p> <p>(PERF STG #4) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 – 120" PHASING, RIH SET CBP @ =8508 ' , PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW SWI SDFN JSA-SAFETY MEETING</p>
11/13/2012	6:30 - 6:45	0.25	FRAC	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 11/28/2012

End Date: 11/29/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 17:00	10.25	FRAC	36	E			<p>(FRAC STG #4) WHP = 1789 #, BRK DN PERFS = 2755#, @ 4.7 BPM, ISIP = 1903 #, FG = 0.67 , CALC PERF OPEN @ 50.5 BPM @ 5183 PSI = 91 % , (19/21 HOLES OPEN , FINAL ISIP = 2491 #, FINAL FG = 0.74 , NET PRESSURE INCREASE = 588 #, MAX PSI = 5401 #, MAX RATE = 51.4 BPM, AVERAGE PSI = 4861 #, AVERAGE RATE = 50.5 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #5) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 - 120* PHASING, RIH SET CBP @ = 8029 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #5) WHP = 603 #, BRK DN PERFS = 2186 #, @ = 4.7 BPM, ISIP = 1329 #, F G = 0.61 , CALC PERF OPEN @ 50.5 BPM @ 5125 PSI = 76 % , (15/21 HOLES OPEN) FINAL ISIP = 2227 #, FINAL F G = 0.72 , NET PRESSURE INCREASE = 898 #, MAX PSI = 5342 #, MAX RATE = 51.7 BPM, AVERAGE PSI = 4453 #, AVERAGE RATE = 50.5 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #6) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 - 120* PHASING, RIH SET CBP @ = 7753 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #6) WHP = 1530 #, BRK DN PERFS = 2014 #, @ 4.7 BPM, ISIP = 1610 #, F G = 0.65 , CALC PERF OPEN @ 50.3 BPM @ 5253 PSI = 81 % , (17/21 HOLES OPEN,) FINAL ISIP = 2162 #, FINAL F G = 0.72 , NET PRESSURE INCREASE = 552 PSI. MAX PSI = 5740 #, MAX RATE = 51 BPM, AVERAGE PSI = 3983 #. AVERAGE RATE = 47.4 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #7) P/U 4 1/2" HALLIBURTON 8K CBP & 3 1/8" PERF GUN, 23 gm, 0.36 HOLE SIZE, 90 - 120* PHASING, RIH SET CBP @ = 7476 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #7) WHP = 385 #, BRK DN PERFS = 2276 #, @ 4.9 BPM, ISIP = 1264 #, F G = 0.61 , CALC PERF OPEN @ 50.9 BPM @ 5256 PSI = 67 % , (16/24 HOLES OPEN) FINAL ISIP = 2476 #, FINAL F G = 0.77 , NET PRESSURE INCREASE = 1212 PSI,</p>

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 11/28/2012

End Date: 11/29/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								<p>MAX PSI = 5605 #, MAX RATE = 52.1 BPM, AVERAGE PSI = 4503 #, AVERAGE RATE = 51.1 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #8) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90-120" PHASING, RIH SET CBP @ 7179 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #8) WHP = 200 #, BRK DN PERFS = 1935 #, @ 5 BPM, ISIP = 1559 #, F G = 0.66 , CALC PERF OPEN @ 51.3 BPM @ 5011 PSI = 81 %, (17/21 HOLES OPEN) FINAL ISIP = 1924 #, FINAL F G = 0.71 , NET PRESSURE INCREASE = 365 PSI, MAX PSI = 5294 #, MAX RATE = 51.8 BPM, AVERAGE PSI = 4589 #, AVERAGE RATE = 50.6 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #9) P/U 4 1/2" HALLIBURTON 8K CBP & 3 1/8" PERF GUN, 23 gm, 0.36 HOLE SIZE, 90 - 120" PHASING, RIH SET CBP @ = 6905 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW SDFN JSA-SAFETY MEETING</p>
11/14/2012	6:30 - 6:45	0.25	FRAC	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW					Spud Date: 7/14/2012				
Project: UTAH-UINTAH			Site: NBU 922-30A PAD				Rig Name No: SWABBCO 6/6, SWABBCO 6/6		
Event: COMPLETION			Start Date: 11/28/2012				End Date: 11/29/2012		
Active Datum: RKB @4,943.00usft (above Mean Sea Level)				UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	6:45 - 11:00	4.25	FRAC	36	B	P		(FRAC STG #9) WHP = 778 #, BRK DN PERFS = 2168 #, @ 4.7 BPM, ISIP = 1513 #, F G = 0.66 , CALC PERF OPEN @ 50.9 BPM @ 4684 PSI = 86 % , (18/21 HOLES OPEN) FINAL ISIP = 1680 #, FINAL F G = 0.69 , NET PRESSURE INCREASE = 167 PSI, MAX PSI = 4993 #, MAX RATE = 52.4 BPM, AVERAGE PSI = 3866 #, AVERAGE RATE = 51 BPM, X OVER TO WIRE LINE (PERF STG #10) P/U 4 ½" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90-120" PHASING, RIH SET CBP @ 6626 ' , PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW (FRAC STG #10) WHP = 777 #, BRK DN PERFS = 1955 #, @ 4.8 BPM, ISIP = 1158 #, F G = 0.62 , CALC PERF OPEN @ 51.1 BPM @ 4350 PSI = 75 % , (18/24 HOLES OPEN) FINAL ISIP = 1252 #, FINAL F G = 0.63 , NET PRESSURE INCREASE = 94 PSI, MAX PSI = 4697 #, MAX RATE = 52.3 BPM, AVERAGE PSI = 3802 #, AVERAGE RATE = 51.1 BPM, X OVER TO WIRE LINE (KILL PLUG) P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @ = 6350' R/D WIRELINE AND FRAC CREW, SHUT WELL IN, TOTAL FLUID PUMP'D = 9361 BBLS TOTAL SAND PUMP'D = 218534 # MIRU ND W/H NU BOPS RU FLOOR & TUB EQUIP PU POBS PKG TALLY & PU TUBING EOT @ 4600' SIW SDFN JSA= PRESS CONTROL	
11/28/2012	14:00 - 17:00	3.00	DRLOUT	30		P			
11/29/2012	7:00 - 7:15	0.25	DRLOUT	48		P			

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US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 11/28/2012

End Date: 11/29/2012

Active Datum: RKB @4,943.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	DRLOUT	30		P		<p>CONTINUE TO RIH TAG PLG @ 6350' RU DRLG EQUIP EST CIRC TEST BOPS TO 3000# DRILL 1ST PLUG</p> <p>PLUG #1] DRILL THRU HALLI 8K CBP @ 6350' IN 9 MIN W/ 0 INCREASE</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 6601' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @ 6626' IN 7 MIN W/ 0 INCREASE</p> <p>PLUG #3] CONTINUE TO RIH TAG SAND @ 6875' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 6905' IN 8 MIN W/ 0 INCREASE</p> <p>PLUG #4] CONTINUE TO RIH TAG SAND @ 7149' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7179' IN 8 MIN W/ 100# INCREASE</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 7461' (15' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7476' IN 11 MIN W/ 100# INCREASE</p> <p>PLUG #6] CONTINUE TO RIH TAG SAND @ 7743' (10' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7753' IN 7 MIN W/ 150# INCREASE</p> <p>PLUG #7] CONTINUE TO RIH TAG SAND @ 8019' (10' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8029' IN 8 MIN W/ 100# INCREASE</p> <p>PLUG #8] CONTINUE TO RIH TAG SAND @ 8498' (10' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8509' IN 9 MIN W/ 150# INCREASE</p> <p>PLUG #9] CONTINUE TO RIH TAG SAND @ 8683' (15' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8698' IN 10 MIN W/ 200# INCREASE</p> <p>PLUG #10] CONTINUE TO RIH TAG SAND @ 8864' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8884' IN 7 MIN W/ 100# INCREASE</p> <p>PBTD] CONTINUE TO RIH TO 9275' RD PWR SW/L POOH LD 19 JNTS LAND TUBING ON HNGR W/ 273 JNTS 2-3/8" L-80 TUBING EOT @ 8682.53' RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD DROP BALL PUMP OFF BIT @ 1600 PSI SIW'NU & TEST FLOWLINE TURN WELL OVER TO FBC SDFN</p> <p>TUBING DETAIL K.B.....1 9.00' HANGER..... 83" 273 JNTS 2-3/8"</p>

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Operation Summary Report

Well: NBU 922-30A1CS YELLOW

Spud Date: 7/14/2012

Project: UTAH-UINTAH

Site: NBU 922-30A PAD

Rig Name No: SWABBCO 6/6, SWABBCO 6/6

Event: COMPLETION

Start Date: 11/28/2012

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UWI: NE/NE/0/9/S/22/E/30/0/0/26/PM/N/985/E/0/512/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								L-80.....8660.50' POBS..... 2.20' EOT@.....868 2.53' TOTAL FL PUMPED= 9361 BBLS RIG REC= 3000 BBLS LEFT TO REC= 6361 BBLS CTAP DEL= 314 JNTS RIG USED= 273 JNTS RETURNED= 41 JNTS WELL TURNED TO SALES @ 1730 HR ON 11/29/2012. MCFD 2088, 1920, BWPD, FCP 2260#, FTP 1900#, 20/64" CK . WELL IP'D ON 11/30/12 - 1907 MCFD, 343 BWPD, 0 BOPD, CP 2430#, FTP 1802#, LP 73#, 24 HRS, CK 20/64
	17:00 - 17:00	0.00	DRLOUT	50				
11/30/2012	-							
	7:00 -			50				

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DIV. OF OIL, GAS & MINING

Site: UINTAH_NBU 922-30A PAD
 Well: NBU 922-30A1CS
 Wellbore: NBU 922-30A1CS
 Section:
 SHL:
 Design: NBU 922-30A1CS (wp01)
 Latitude: 40.011606
 Longitude: -109.474434
 GL: 4924.00
 KB: 18' RKB + 4924' GL @ 4942.00ft (SST 54)

TVDPATH	MDPATH	FORMATION
1419.00	1435.21	GREEN RIVER
1751.00	1775.32	BIRDS NEST
2271.00	2306.41	MAHOGANY
4724.00	4780.76	WASATCH
5324.00	5380.76	TOP OF CYLINDER
7329.00	7385.80	MESAVERDE
9530.00	9586.84	SEGO

WELL DETAILS: NBU 922-30A1CS

+N/-S	+E/-W	Northing	Ground Level: Easting	4924.00 Latitude	Longitude	Slot
0.00	0.00	14533927.49	2067600.61	40.011606	-109.474434	

CASING DETAILS

TVD	MD	Name	Size
2710.91	2755.26	8-5/8	8-5/8



Azimuths to True North
 Magnetic North: 10.9°

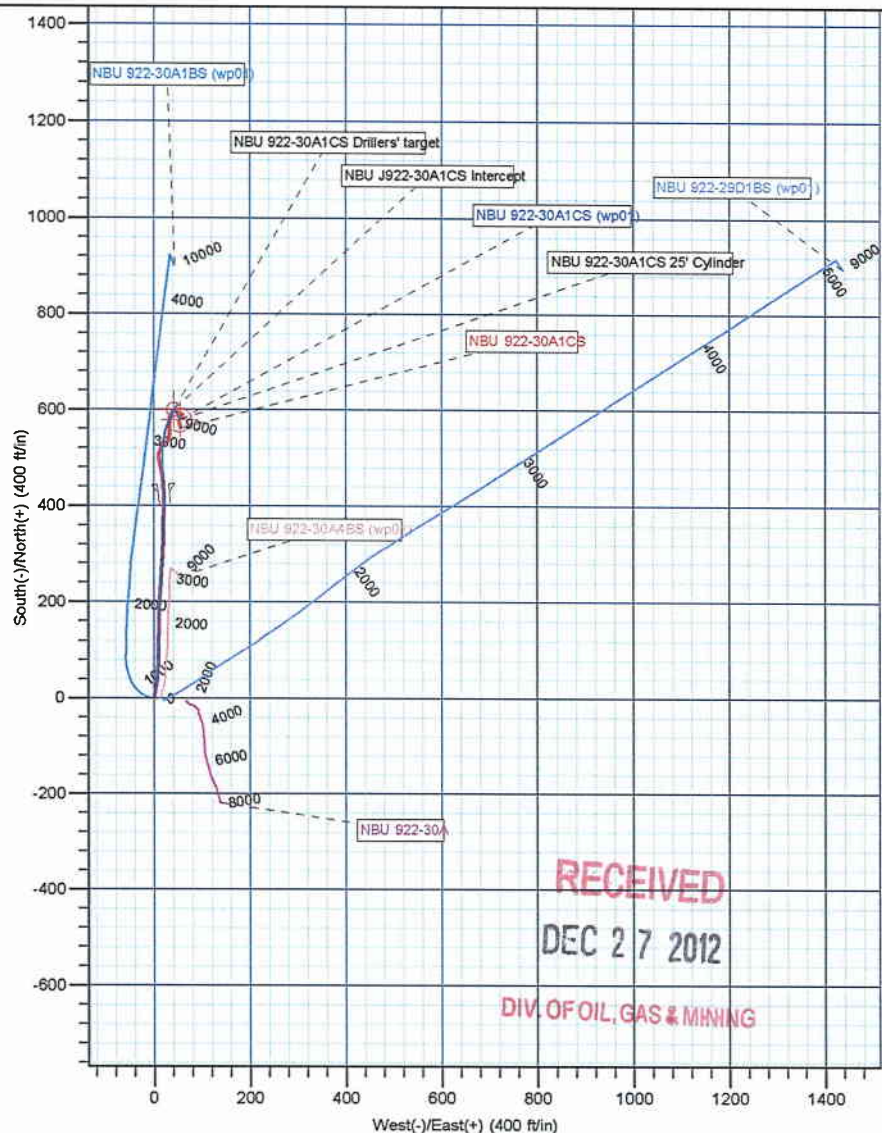
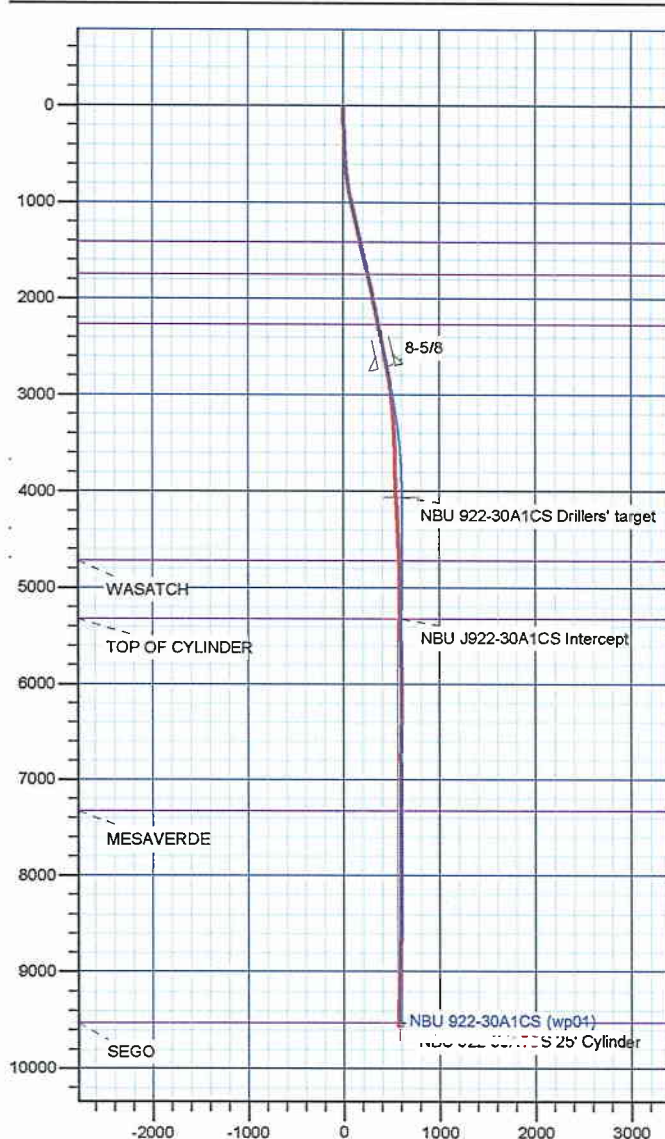
Magnetic Field
 Strength: 52230.6sr
 Dip Angle: 65.8
 Date: 7/18/201
 Model: IGRF201

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
NBU 922-30A1CS Drillers' target	4058.24	599.87	41.48	14534527.98	2067631.82	40.013253	-109.474286	Circle (Radius: 15.00)
NBU 922-30A1CS Intercept	5324.00	599.87	41.48	14534527.98	2067631.82	40.013253	-109.474286	Point
NBU 922-30A1CS 25' Cylinder	9530.00	578.37	54.33	14534506.70	2067645.03	40.013194	-109.474240	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
2734.00	12.31	355.99	2690.13	440.49	20.16	0.00	0.00	440.44
2884.00	12.31	355.99	2836.69	472.39	17.93	0.00	0.00	471.99
4115.00	0.00	39.44	4058.24	599.87	41.48	1.07	159.27	601.12
5367.76	0.00	39.44	5311.00	599.87	41.48	0.00	39.44	601.12
5482.74	0.34	149.13	5425.97	599.57	41.66	0.30	149.13	600.84
9586.84	0.34	149.13	9530.00	578.37	54.33	0.00	0.00	580.91



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UINTAH_NBU 922-30A PAD

NBU 922-30A1CS

NBU 922-30A1CS

Design: NBU 922-30A1CS

Standard Survey Report

27 August, 2012

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DIV. OF OIL, GAS & MINING

Andarko Petroleum Corporation

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-30A1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	18' RKB + 4924' GL @ 4942.00ft (SST 54)
Site:	UINTAH_NBU 922-30A PAD	MD Reference:	18' RKB + 4924' GL @ 4942.00ft (SST 54)
Well:	NBU 922-30A1CS	North Reference:	True
Wellbore:	NBU 922-30A1CS	Survey Calculation Method:	Minimum Curvature
Design:	NBU 922-30A1CS	Database:	edmp

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site		UINTAH_NBU 922-30A PAD						
Site Position:		Northing:	14,533,922.36	usft	Latitude:	40.011591		
From:	Lat/Long	Easting:	2,067,619.74	usft	Longitude:	-109.474366		
Position Uncertainty:	0.00	ft	Slot Radius:	13-3/16	"	Grid Convergence:	0.98	°

Well	NBU 922-30A1CS					
Well Position	+N/-S	0.00 ft	Northing:	14,533,927.50 usft	Latitude:	40.011606
	+E/-W	0.00 ft	Easting:	2,067,600.61 usft	Longitude:	-109.474434
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	4,924.00 ft

Wellbore	NBU 922-30A1CS				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	7/18/2012	10.93	65.85	52,231

Design	NBU 922-30A1CS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	14.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	14.00	0.00	0.00	2.62	

Survey Program	Date 8/27/2012				
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
157.00	2,734.00	Survey #1 (NBU 922-30A1CS)	MWD	MWD - STANDARD	
2,859.00	9,615.00	Survey #2 (NBU 922-30A1CS)	MWD	MWD - STANDARD	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100usft)	(°/100usft)	(°/100usft)	
14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
157.00	0.09	160.52	157.00	-0.11	0.04	-0.10	0.06	0.06	0.00	
186.00	0.18	34.48	186.00	-0.09	0.07	-0.09	0.84	0.31	-434.62	
214.00	0.26	343.60	214.00	0.01	0.08	0.01	0.72	0.29	-181.71	
244.00	0.70	28.77	244.00	0.23	0.15	0.24	1.83	1.47	150.57	
273.00	1.14	20.25	272.99	0.66	0.33	0.67	1.58	1.52	-29.38	
302.00	1.58	17.61	301.99	1.31	0.55	1.33	1.53	1.52	-9.10	
329.00	2.12	10.92	328.97	2.16	0.76	2.19	2.15	2.00	-24.78	
358.00	2.55	8.29	357.95	3.32	0.95	3.36	1.53	1.48	-9.07	
449.00	3.43	11.02	448.82	8.00	1.77	8.07	0.98	0.97	3.00	

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Andarko Petroleum Corporation

Survey Report

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 922-30A PAD
Well: NBU 922-30A1CS
Wellbore: NBU 922-30A1CS
Design: NBU 922-30A1CS

Local Co-ordinate Reference: Well NBU 922-30A1CS
TVD Reference: 18' RKB + 4924' GL @ 4942.00ft (SST 54)
MD Reference: 18' RKB + 4924' GL @ 4942.00ft (SST 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
539.00	4.22	7.94	538.62	13.92	2.74	14.03	0.91	0.88	-3.42
629.00	5.54	8.03	628.29	21.50	3.80	21.65	1.47	1.47	0.10
719.00	7.12	8.73	717.74	31.32	5.26	31.52	1.76	1.76	0.78
809.00	8.71	5.39	806.88	43.61	6.74	43.88	1.84	1.77	-3.71
899.00	10.29	3.37	895.65	58.42	7.86	58.72	1.79	1.76	-2.24
989.00	11.70	1.70	983.99	75.57	8.60	75.89	1.61	1.57	-1.86
1,079.00	12.93	1.44	1,071.92	94.76	9.12	95.08	1.37	1.37	-0.29
1,169.00	13.45	1.52	1,159.54	115.29	9.65	115.61	0.58	0.58	0.09
1,259.00	12.93	0.73	1,247.17	135.82	10.06	136.14	0.61	-0.58	-0.88
1,349.00	13.01	359.94	1,334.87	156.02	10.18	156.32	0.22	0.09	-0.88
1,439.00	12.22	1.26	1,422.70	175.67	10.38	175.96	0.93	-0.88	1.47
1,529.00	12.31	3.37	1,510.65	194.77	11.15	195.08	0.51	0.10	2.34
1,619.00	12.22	4.16	1,598.59	213.85	12.40	214.19	0.21	-0.10	0.88
1,709.00	13.19	4.34	1,686.39	233.59	13.87	233.98	1.08	1.08	0.20
1,799.00	12.75	2.67	1,774.09	253.75	15.11	254.17	0.64	-0.49	-1.86
1,889.00	12.40	3.81	1,861.93	273.31	16.22	273.77	0.48	-0.39	1.27
1,979.00	12.49	3.37	1,949.82	292.67	17.43	293.16	0.15	0.10	-0.49
2,069.00	11.87	2.49	2,037.79	311.63	18.41	312.15	0.72	-0.69	-0.98
2,159.00	10.64	1.00	2,126.06	329.19	18.95	329.71	1.40	-1.37	-1.66
2,249.00	10.46	1.44	2,214.54	345.66	19.30	346.18	0.22	-0.20	0.49
2,339.00	10.29	2.05	2,303.07	361.86	19.80	362.39	0.22	-0.19	0.68
2,429.00	11.08	2.32	2,391.51	378.54	20.43	379.07	0.88	0.88	0.30
2,519.00	11.70	1.96	2,479.73	396.30	21.10	396.85	0.69	0.69	-0.40
2,609.00	11.63	359.44	2,567.88	414.49	21.32	415.03	0.57	-0.08	-2.80
2,699.00	12.22	356.51	2,655.93	433.07	20.65	433.56	0.94	0.66	-3.26
2,734.00	12.31	355.99	2,690.13	440.49	20.16	440.95	0.41	0.26	-1.49
TIE ON									
2,859.00	10.74	350.78	2,812.61	465.28	17.37	465.59	1.51	-1.26	-4.17
FIRST MWD SURVEY									
2,954.00	9.31	345.55	2,906.16	481.46	14.03	481.60	1.78	-1.51	-5.51
3,049.00	7.18	346.20	3,000.18	494.67	10.70	494.64	2.24	-2.24	0.68
3,144.00	5.44	9.70	3,094.61	504.87	10.04	504.80	3.24	-1.83	24.74
3,240.00	4.56	21.33	3,190.25	512.91	12.19	512.93	1.39	-0.92	12.11
3,335.00	3.69	16.83	3,285.00	519.36	14.45	519.47	0.98	-0.92	-4.74
3,430.00	2.88	16.70	3,379.84	524.57	16.02	524.75	0.85	-0.85	-0.14
3,526.00	2.88	53.83	3,475.73	528.30	18.66	528.60	1.91	0.00	38.68
3,621.00	2.25	58.70	3,570.64	530.68	22.18	531.14	0.70	-0.66	5.13
3,716.00	1.63	65.58	3,665.58	532.21	25.01	532.79	0.70	-0.65	7.24
3,812.00	1.38	65.58	3,761.55	533.25	27.30	533.94	0.26	-0.26	0.00
3,907.00	2.75	39.08	3,856.49	535.49	29.78	536.29	1.72	1.44	-27.89
4,003.00	3.13	7.82	3,952.37	539.88	31.59	540.76	1.69	0.40	-32.56
4,098.00	1.75	357.33	4,047.28	543.90	31.88	544.78	1.52	-1.45	-11.04
4,193.00	1.94	4.45	4,142.23	546.95	31.93	547.94	0.20	0.20	7.49

Andarko Petroleum Corporation

Survey Report

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 922-30A PAD
Well: NBU 922-30A1CS
Wellbore: NBU 922-30A1CS
Design: NBU 922-30A1CS

Local Co-ordinate Reference: Well NBU 922-30A1CS
TVD Reference: 18' RKB + 4924' GL @ 4942.00ft (SST 54)
MD Reference: 18' RKB + 4924' GL @ 4942.00ft (SST 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edmp

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,289.00	2.75	6.45	4,238.15	550.86	32.32	551.76	0.85	0.84	2.08	
4,385.00	2.63	354.08	4,334.04	555.34	32.35	556.23	0.62	-0.13	-12.89	
4,480.00	3.31	4.20	4,428.91	560.24	32.32	561.13	0.90	0.72	10.65	
4,575.00	2.94	6.07	4,523.77	565.40	32.78	566.30	0.40	-0.39	1.97	
4,671.00	1.94	5.07	4,619.68	569.46	33.19	570.39	1.04	-1.04	-1.04	
4,767.00	1.25	0.20	4,715.65	572.13	33.33	573.05	0.73	-0.72	-5.07	
4,862.00	0.75	2.45	4,810.63	573.79	33.36	574.71	0.53	-0.53	2.37	
4,958.00	2.06	6.95	4,906.60	576.13	33.60	577.06	1.37	1.36	4.69	
5,053.00	1.38	14.08	5,001.56	578.93	34.09	579.88	0.75	-0.72	7.51	
5,149.00	1.00	19.95	5,097.54	580.84	34.65	581.82	0.42	-0.40	6.11	
5,244.00	0.63	17.83	5,192.53	582.12	35.10	583.11	0.39	-0.39	-2.23	
5,339.00	1.13	47.70	5,287.52	583.24	35.95	584.28	0.70	0.53	31.44	
5,434.00	1.19	57.45	5,382.50	584.41	37.47	585.51	0.22	0.06	10.26	
5,530.00	1.25	35.08	5,478.48	585.80	38.91	586.97	0.50	0.06	-23.30	
5,625.00	1.94	356.58	5,573.44	588.25	39.41	589.44	1.30	0.73	-40.53	
5,720.00	1.94	359.08	5,668.39	591.46	39.29	592.64	0.09	0.00	2.63	
5,816.00	1.63	356.70	5,764.34	594.45	39.19	595.62	0.33	-0.32	-2.48	
5,911.00	1.44	29.58	5,859.31	596.84	39.70	598.03	0.93	-0.20	34.61	
6,006.00	1.19	29.33	5,954.28	598.74	40.77	599.98	0.26	-0.26	-0.26	
6,101.00	0.94	96.58	6,049.27	599.51	42.03	600.80	1.26	-0.26	70.79	
6,196.00	1.25	110.70	6,144.25	599.05	43.77	600.43	0.43	0.33	14.86	
6,292.00	1.50	122.95	6,240.22	598.00	45.81	599.47	0.40	0.26	12.76	
6,387.00	1.38	133.70	6,335.19	596.53	47.68	598.09	0.31	-0.13	11.32	
6,483.00	1.38	135.70	6,431.17	594.91	49.32	596.54	0.05	0.00	2.08	
6,578.00	1.38	143.70	6,526.14	593.17	50.80	594.87	0.20	0.00	8.42	
6,674.00	1.25	142.82	6,622.11	591.40	52.11	593.16	0.14	-0.14	-0.92	
6,769.00	1.17	196.72	6,717.10	589.65	52.46	591.43	1.16	-0.08	56.74	
6,864.00	0.75	337.70	6,812.09	589.29	51.95	591.05	1.91	-0.44	148.40	
6,959.00	0.31	343.08	6,907.09	590.11	51.63	591.86	0.47	-0.46	5.66	
7,053.00	0.06	69.33	7,001.08	590.37	51.61	592.12	0.33	-0.27	91.76	
7,148.00	0.13	100.45	7,096.08	590.37	51.76	592.12	0.09	0.07	32.76	
7,244.00	0.31	129.07	7,192.08	590.19	52.07	591.95	0.21	0.19	29.81	
7,338.00	1.13	144.20	7,286.08	589.28	52.81	591.07	0.89	0.87	16.10	
7,432.00	0.75	153.95	7,380.06	587.97	53.62	589.81	0.44	-0.40	10.37	
7,527.00	0.69	142.58	7,475.06	586.96	54.24	588.83	0.16	-0.06	-11.97	
7,622.00	0.13	295.95	7,570.05	586.55	54.49	588.43	0.85	-0.59	161.44	
7,718.00	1.25	359.08	7,666.05	587.65	54.38	589.52	1.25	1.17	65.76	
7,813.00	0.75	14.33	7,761.03	589.29	54.51	591.16	0.59	-0.53	16.05	
7,908.00	0.81	71.08	7,856.02	590.11	55.30	592.02	0.78	0.06	59.74	
8,003.00	0.63	63.08	7,951.02	590.56	56.40	592.52	0.22	-0.19	-8.42	
8,098.00	0.69	82.70	8,046.01	590.87	57.44	592.88	0.24	0.06	20.65	
8,194.00	0.88	109.08	8,142.00	590.70	58.71	592.77	0.42	0.20	27.48	
8,289.00	1.00	110.45	8,236.99	590.17	60.17	592.31	0.13	0.13	1.44	
8,385.00	0.88	248.45	8,332.98	589.61	60.27	591.75	1.83	-0.13	143.75	

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Andarko Petroleum Corporation

Survey Report

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 922-30A PAD
Well: NBU 922-30A1CS
Wellbore: NBU 922-30A1CS
Design: NBU 922-30A1CS

Local Co-ordinate Reference: Well NBU 922-30A1CS
TVD Reference: 18' RKB + 4924' GL @ 4942.00ft (SST 54)
MD Reference: 18' RKB + 4924' GL @ 4942.00ft (SST 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,480.00	0.88	215.45	8,427.97	588.75	59.17	590.84	0.53	0.00	-34.74
8,576.00	1.13	211.70	8,523.96	587.34	58.25	589.39	0.27	0.26	-3.91
8,671.00	1.19	217.20	8,618.94	585.76	57.16	587.76	0.13	0.06	5.79
8,767.00	1.25	212.83	8,714.92	584.08	55.99	586.03	0.12	0.06	-4.55
8,863.00	1.25	206.32	8,810.89	582.27	54.95	584.17	0.15	0.00	-6.78
8,958.00	1.25	197.83	8,905.87	580.35	54.18	582.22	0.19	0.00	-8.94
9,054.00	1.56	192.95	9,001.84	578.08	53.56	579.93	0.35	0.32	-5.08
9,149.00	2.00	178.33	9,096.80	575.16	53.32	577.00	0.66	0.46	-15.39
9,245.00	2.06	178.58	9,192.74	571.76	53.41	573.61	0.06	0.06	0.26
9,340.00	2.00	161.95	9,287.68	568.48	53.97	570.35	0.62	-0.06	-17.51
9,435.00	1.69	163.83	9,382.63	565.56	54.87	567.48	0.33	-0.33	1.98
9,555.00	1.63	156.70	9,502.58	562.29	56.04	564.27	0.18	-0.05	-5.94
LAST MWD SURVEY									
9,615.00	1.63	156.70	9,562.55	560.72	56.72	562.73	0.00	0.00	0.00
PROJECTION TO TD									

Checked By: _____ Approved By: _____ Date: _____

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Aug 7 2012

DIV. OF OIL, GAS & MINING